

TESTFUNDA

MENTAL AGILITY QUIZZES



Book 1

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PREFACE

For the past couple of years, CAT and other MBA entrance exams have shown a trend towards questions testing a student's ability to apply Mathematical Principles and Analytical Reasoning to solve problems. The unpredictable nature of CAT has ensured that most students are never fully prepared to ace the exam. This is because students limit their preparation to just the learning and practice of core concepts of Mathematics, Verbal Ability and Data Interpretation & Logical Reasoning. However, to bell the CAT, divergent thinking is required which is why experts also recommend solving an eclectic mix of Puzzles, Crosswords, Riddles and Brain Teasers. These enhance the problem-solving skills of CAT aspirants and encourage them to think out-of-the-box.

We, at TestFunda.com, conduct Online Quizzes that help hone one's Mental Agility. These fun quizzes are an entertaining way of sharpening one's logical acumen. The quizzes in this book will give students that extra edge and confidence needed to be ready for any surprise that an MBA entrance exam might throw their way.

We are sure that our readers will benefit greatly from these books. They shall provide a much-needed break from long study hours as well as high-quality cerebral recreation.

Online Quiz # 04 (06-Oct-08)

Q1. You have a peculiar clock. At midnight, when you checked with your wrist watch and set the time, the clock was showing the correct time. Now the clock is showing 3:00 a.m. It loses ten minutes every half an hour. What is the correct time now given that the clock stopped one hour ago?

Q2. A vegetable vendor bought 100 kg of potatoes to sell. These potatoes consist of 99% water. He sat on the roadside to sell them. Over the course of the day he sold half the potatoes. Since the sun was beating down all day on the potatoes, they lost some water due to evaporation. Now the potatoes contain only 98% water. How much do the remaining potatoes weigh?

Q3. These are the statements made by 5 people. Who out of these five is/are definitely lying?

Person A: B is lying

Person B: D is lying

Person C: I am not bothered who is lying

Person D: Both, A and B are lying

Person E: Lying is what liars do

Questions 4-8: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 33 out of 1, 2, 6, and 7.

Answer: $((6 - 1) \times 7) - 2$

Q4. Make 52 out of 2, 5, 8, and 9.

Q5. Make 34 out of 1, 2, 6, and 7.

Q6. Make 68 out of 1, 2, 8, and 9.

Q7. Make 44 out of 6, 7, 8, and 9.

Q8. Make 2 out of 1, 5, 7, and 7.

Questions 9-12: Lateral thinking puzzles. There is no single correct solution to these puzzles. We will use our discretion to allow / disallow the solutions.

Example: A man is found dead, hanging from the ceiling. The room is locked from inside and is completely empty with no furniture. The floor is wet. How did the man die.

Answer: He climbed on a block of ice and then hung himself. The ice melted over a period of time – that is why the floor is wet.

Q9. Anil looked through the dirty window on the 25th floor of a building. Suddenly he felt sick and tired – he opened the window and jumped through it. There was nothing to break or cushion his fall – the floor was hard stone. Yet he did not die – how?

Q10. Four men sat down to play. They were playing for money and not for fun. They played till the morning. When they split in the morning, they all had more money than they had when they started playing? How is it possible?

Q11. A man in a small town marries 10 women. He is not charged with polygamy though the polygamy is illegal in that town. Why?

Q12. One day a girl celebrated her birthday. Two days later, her older twin brother celebrated his. How is this possible?

Q13. I am spelled the same backwards and forwards. I travel very fast. What am I?

Q14. Below you will find 4 five letter words, with only their endings remaining. Can you determine the words?

..tar
..ine
..ist
..yst

Q15. One day the doorbell rung and two men were standing outside your door. One of them introduces the other by saying: "Brothers and sisters I have none, but that man's father is my father's son." What is the relationship between the two men?

Q16. Given below are 3 seven letter words, with only their last three letters provided. Can you determine the words?

....ain
....our
....thy

Q17. Given below are 3 seven letter words, with only their last three letters provided. Can you determine the words?

....rno
....mal
....nic

Q18. Given below are 4 seven letter words, with only their last three letters provided. Can you determine the words?

.... ane
.... try
.... ory
.... age

Q19. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words.

QuaScaHumLigPro
venhtnonglifbos
iedouiscisgering

Q20. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words.

FraEccCauAstSac
rolrifenttersal
ricnalityiceogy

Q21. Can you find the countries given by the codes below. The letter indicates the first letter of the country and the number represents the number of letters in the name of the country. For example, E7 would be England.

Z6, L10, I9, E7, B6, J7, P8, M10, P4, F4

[View](#) the solutions of this quiz.

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Online Quiz #06 (17-Oct-08)

Q1. A man in a restaurant ordered gulab jamuns in a weird pattern every day for five days. After eating a certain amount of gulab jamuns on the first day, he ate five more gulab jamuns than the previous day every successive day. How many gulab jamuns had he eaten on the fourth day, if he had consumed 80 gulab jamuns during the five days?

Q2. Arrange the ten digits from 0 to 9 in three arithmetical expressions, using three of the four operations of addition, subtraction, multiplication, and division, and using no signs except the ordinary ones implying those operations. Use these digits only once and the operations also only once. Here is an example to make it quite clear (note that the example is not correct):
 $3 + 4 = 7$ $9 - 8 = 15$ $X 6 = 30$

Q3. What is the missing number in this arrangement?

1	2	3	4	5
1	3	7	15	31
1	4	13	40	121
1	5	21	85	341
1	6	31	156	???

Q4. Use each of the digits 1, 2, 3, 4, 5 and 6 once only, in this multiplication problem to make it correct.

?	?
X	?
<hr/>	
?	??

Q5. What is significant about the order of these numbers: 8 5 4 9 1 7 6 3 2

Q6. My mom and dad have faulty watches. I don't have any. My dad's watch consistently runs fast by three minutes per hour, and my mom's watch runs two minutes per hour slow. Yesterday, we missed our flight because the watches were three hours apart and we followed my mom's watch. How many hours had elapsed since both of them had been set properly?

Q7. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words. It is possible that you may find two pieces of the same word in the same column.

avisocusillyedu
ogybehurablenat
plaiolcationour

Q8. Given below are 4 seven letter words, with only three letters provided. Can you determine the words?

_ t t _ _ _ t
_ e _ w _ _ n
o _ _ e r _ _
_ _ m e o _ _

Q9. 5 nine letter words have been chopped off into pieces having three letters each. The pieces have been jumbled up. Every piece is used exactly once. Identify the words. It is possible that you may find two pieces of the same word in the same column.

ighionvermomral
lutepharyteneme
enlentsalevotra

Q10. Given below are 4 seven letter words, with only three letters provided. Can you determine the words?

_ _ l l _ _ t
_ r o _ _ _ t
_ _ l l o _ _
_ t a r _ _ _

Directions for Questions 11-13: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 33 out of 1, 2, 6, and 7.

Answer: $((6 - 1) \times 7) - 2$

Q11. Make 5 out of 2,3,7, and 9.

Q12. Make 19 out of 6, 7, 8, and 9.

Q13. Make 120 out of 1, 7, 8, and 9.

Q14-16: Words have been encrypted in a certain way. Decrypt the codes and Find out the answer.

For example: If LIGHT = THGIL, then VISION = ?

Answer: NOISIV

Q14. In a certain code, WATER = XBWFS and TRAIN = USBJM. What is the code for CRASH?

Q15. If CAB = 14, BAD = 21. What is the value of DOG?

Hint: A=1, B=2, C=3 Z=26. The value of CAB is obtained by performing certain operations on the values of C, A and B.

Q16. If CHART = DJDVY, then what is the code for LEAF?

Q17. I am a 6 letter word.

Letters 3-2-5 involves taking a risk.

You could end up in 1-2-3-5 if you make a 3-2-5.

Letters 1-4-5-6 is a pre-arranged meeting

Q18 – 20: The following words are anagrams for a single word

For example: Circlet Yeti is Electricity

Q18. Shipmates Moor

Hint: This word means a change or transformation

Q19. A Hubcap Soil Rot

Hint: This word means “a fear of enclosed spaces”.

Q20. Club Neuter

Hint: This word means “commotion or turmoil”.

[View](#) the solutions of this quiz.

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Online Quiz #08 (31-Oct-08)

For questions 1 and 2: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words:

Q1.

ity nis cha ied can
mbe ers ery cla ago
red adv tic rif chi

Q2.

tin ell env ged ded
gar ess con ive emb
uum ish isa exc lan

Q3. IF RANDOM = TZPFNL, what is SIMPLE?

Q4. If ABACUS = 41 and TALLEST = 82, what is FLAGELLA?

Q5. If SOCKET = URGPKA, what is PHILHARMONIC?

For questions 6 and 7: Fill in the blanks to complete the following seven-lettered words:

Q6.

_b_s h__
__u s_l
_z__i s_
g__r_e_
_o_e_i_

Q7.

_r_h_r_
_e n__n_
t_e__t_
_d__a_t
c_u c__

Q8. A shelf in Mrs. Robinson's store-room has a capacity of 150 identical cans of food. Mrs. Robinson arranged all the cans she had into stacks of five each and noticed that she had no cans remaining. Her daughter used up one can to make soup for dinner. Mrs. Robinson noticed that, now, if she arranged the cans in stacks of 7, she would have none remaining. The number of cans she had was the highest possible fulfilling the given conditions. How many cans of food did Mrs. Robinson originally have?

Q9. The gardeners at Rani Lakshmbai Chowk want to plant a total of 45 white and pink flowers in one flower bed. In another flower bed, they want to plant 120 flowers. In this bed, they want two times the number of white flowers and three times the number of pink flowers as in the first bed. How many white flowers the gardeners should buy altogether?

Q10. A is taller than B. C is 4 inches shorter than B. Difference between the height of C and D is 6 inches. The difference between the heights of the tallest and the shortest is 10 inches. The sum of the two tallest guys is 140 inches. What is the height of C?

Q11. Ravi has a piece of cardboard of dimensions 19 cm x 17 cm. He cuts off a square of side 4 cm, at each corner and folds the cardboard to make an open box. What is the volume that the box can encompass neglecting the thickness of the cardboard.

Q12. Complete the sequence:
2836272?

Directions for Questions 13-16: Use given numbers and the four primary mathematical operations (+ - x /) and brackets to get the desired number. Use the given numbers only once.

Example: Make 32 out of 2, 8, 7 and 4.

Answer: $(8 \times 7) / 2 + 4$

Q13. Make 28 with 9, 1, 2, 6.

Q14. Make 24 with 7, 6, 5, 4.

Q15. Make 44 with 1, 5, 7, 9.

Q16. Make 91 from 2,6,7,9

Q17. I am an 8 letter word.

Letters 6, 7, 8 tell us how old a person is.

Letters 5, 6, 4, 8 are something we enter through every day.

Every item in a supermarket has a 4, 6, 5 on it.

4, 2, 1 spell out the name of a boy.

One swabs the floor with a 3, 6, 5.

Identify me.

Q18. I am a 6 letter word.

Letters 6, 5, 2 spell out a drink.

Letters 4, 5, 2, 3 spell out a fruit.

Letters 3, 2, 6 spell out a pest, which often gets eaten by the pet spelled by the letters 1, 2, 6.

What am I?

Q19. Below you will find seven well-known seven letter words, with only their endings remaining. Can you determine the words?

....nst

....nip

....rno

....dox

....sil

Q20. Below you will find seven well-known seven letter words, with only their endings remaining. Can you determine the words?

....iem

....arb

....ior

....bey

....van

[View](#) the solutions of this quiz.

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Online Quiz #09 (07-Nov-08)

Q1. 11 friends contribute some money to go for an outing. The money contributed by them is in A.P. Sum of the lowest contributor and the 5th lowest contributor is the average of the contribution of all the friends. What is the ratio of highest and lowest contribution?

Q2. Prakash's bike gives a mileage of 64 km/litre in ideal conditions. With a pillion it drops by 8 km/litre. Prakash drops his son (18 kgs), to his school everyday 7 km away and then goes 8 km further to office and returns the same way picking up his son. What is the mileage in a day.

Q3. There are 2 different paths to travel from city A to city B. Path 1 (105 km) has 2 toll nakas in between. The toll to be paid on these is Rs. 25 and Rs. 35 respectively. Path 2 (175 km) has 1 toll naka and the toll to be paid is Rs. 15. If one considers time value of money as Rs. 25/hr then which is the path one should take if the speed is 35 km/hr.

Q4. Shreya loves talking on her cell. She talks on an average 25 minutes on a weekday from Monday to Friday and around 45 minutes on weekends. If she has refilled the talktime on the first of a month, which is a Thursday, so that she can speak for 600 minutes, what is the day on which she would need to go for refill?

For questions 5 and 6: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words.

Q5.
conuredexentary
ebuutetemosdes
tertitliporfig

Q6.
ursertcatategue
tergeoexciveing
phyassaligraalo

Q7. Fill in the blanks to complete the following seven-lettered words.

M _ _ N D _ _
_ _ Y _ A _ K
K _ B _ _ _ Z
_ N _ M _ U _
_ N T _ _ _ N

Q8. Fill in the blanks to complete the following eight-lettered words

E _ _ O _ C _ D
_ _ R _ N _ E D
F _ A _ M _ _ T
_ N _ U _ I _ G
_ U T _ A _ T _

Q9. Fill in the blanks to complete the following eight-lettered words.

R _ _ O _ O _ S
A _ T _ _ T _ C
_ _ T E R _ _ L
H _ _ I _ I _ Y
_ B S _ _ E _ E

For questions 10 to 12: Use three of the four basic operators (+, -, X, /) and brackets to get the number from the given numbers. Use any operator only once.

Example: Make 64 using 1, 7, 6, 5

Answer: $(7 + 6) \times 5 - 1$

Q10. Make 39 using 6, 2, 7, 3.

Q11. Make 72 using 3, 1, 9, 6.

Q12. Make 58 using 1, 6, 9, 4.

Q13. Below you will find 5 seven lettered words with their endings remaining. Can you determine the words?

---- n c t

---- a i r

---- a l a

---- n o x

---- e b o

Q14. Below you will find 4 five letter words, with only their endings remaining. Can you determine the words?

.. ste

.. ear

..eat

.. ill

..owd

Q15.

Complete the sequence

7 22 45 76 ?

Q16. A three digit number and a two digit number are multiplied to get a five digit number as follows.

51A

x A5

1ABCC

Find the values of A, B and C.

Q17. A three digit number and a two digit number are multiplied to get a five digit number as follows.

AB9

x 3C

B9AC3

Find the values of A, B and C.

Q18. A and B both select a number each and C selects the number which is the HCF of the numbers selected by A and B. Product of the numbers selected by A and B is 6 times the square of the number selected by C. What is the ratio of LCM and HCF of the numbers selected by A and B?

Q19.

I am a 9 letter word.

2-3-4-5-9 means to deteriorate

5-6-9-1-8 is a cherished desire

6-7-8-9 is a former mistress who resides by the Tiber.

Q20.

I am an 11 letter word.

The 1-2-3 is an important concept in geometry.

6-7-8-7 was perhaps the greatest player of the “beautiful game”

6-7-8-7 has scored many a 10-11-9-8 in his career.

1-2-3-4-5-7 has many ‘comic’ capers with Cooper and Lodge.

Creatures that make the sound 3-4-5-2-6 usually find 6-7-2-3-4 a resting place.

[View](#) the solutions of this quiz.

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Online Quiz #11 (28-Nov-08)

Directions for Questions 1-3: A,B,C,D,E and F are single digit positive integers. Identify them.

Q1.

A 4 B

x B 9

DC9AA

Q2.

A B 9

x 1 C

F 9 E D

Q3.

9 A B

x B 9

BC7AC

Directions for Questions 4-7: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q4. Some

Wash

Back

Q5. Whole

Quarrel

Day

Q6. Black

Play

Number

Q7. Tell

See

There

Directions for Questions 8-10: Append letters to the beginning or end or both of the following fragments to make meaningful words.

For Example:

Q. agme

Answer: Fragment.

Q8. msoe

Erog

Q9. eleco

ioac

Q10. hle

ewil

Questions 11-14 are lateral thinking puzzles.

Q11. A person was caught by cannibals. He was supposed to pick one of the two papers in front of him "Leave" and "Imprison" depending upon which his fate would be decided. One of his enemies secretly told him that he has replaced the paper with "Leave" by "Imprison". So now both papers have "Imprison" written on them. There is no way you can tell the cannibals what your enemy has done. How do you save yourself?

Q12. A father was approached by two gentlemen to marry his daughter. It was decided that there would be a race between them where they would ride their horses. The one whose horse reaches the finish line last would marry the daughter. The two men were wandering for days on the their horses in order to keep away from the finish line. One day a wise old man met them who told them something. After that they rushed towards the finish line. What did the old man tell them?

Q13. How do you divide 5 fully filled barrels, 5 half-filled barrels and 5 empty barrels among three people such that everybody gets equal number of full barrels, equal number of half-filled barrels and equal number of empty barrels?

Q14. 10 people in a group make the following statements about the liars in the group. Only one of the following statements is true. How many liars are there?

- 1: There is only one liar in the group
- 2: There are exactly two liars in the group
- 3: There are exactly two liars in the group
- .
- .
- .
- .
- 10: There are exactly 10 liars in the group

Directions for Questions 15-17: Append the same set of two letters to make meaningful words.

Q. w h o _ _ s a _ _

Answer: W h o l e s a l e

Q15. A _ _ a _ _ a

Tr _ _ b a d _ _ r

Q16. _ _ d a _ _ t e d

S _ _ u r _ _ e

Q17. H _ _ g _ _ l i n

l o _ _ i _ _

Q18. Shyam travelled by a train that was 3 km long. The train travelled at 3 km/min. There was a tunnel in its way through which the train needed to pass. The tunnel was also 3 km long. How long will it take the train to pass through the tunnel completely?

Q19. Ravi travelled in a car 22.5 km from town A to town B. He used 6 tyres in all during the journey. All the tyres were used equally. What was the distance traveled by each tyre.

Q20. Dinesh visited 8 of his colleagues in strange pattern. He visited the first colleague every day. He visited the second every second day and so on. When will he meet all the friends on the same day?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #13 (12-Dec-08)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow

Slowmotion

Slowpoke

Slowdown

Q1. winner

Sweet

Corn

Q2. Top

Test

Well

Q3. Child

Water

Read

Q4. Buck

Sore

Lash

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

toast

xerox

Q5. lo

as

ort

Q6. rou

oli

axi

Q7. illo
ibe
otio

Q8. luf
earl
quat

Directions for Questions 9 and 10: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9.
Don's budge I look be ids lover.
Halt I leaf it letter then to tread.

Q10.
Beauts if oily skit jeep.
I pool any hit honey ate moon darted.

Directions for Questions 11 and 12: The following questions are lateral thinking riddles.

Q11. Men love me more that their lives,
and fear me more than death or even their wives,
I am the requirement of the rich and the possession of the poor,
The contented desire me,
The miser spends me, but the spendthrift saves,
I accompany each of them even in their graves.
Who am I?

Q12. I wave my hands at you,
Yet never say goodbye,
It's cool when I hang around you,
Especially when I am high.
Who am I?

Directions for Questions 13-16: The following questions are lateral thinking puzzles.

Q13. Amit boughts apples at Rs.50 per Kg from an American supermarket and sold them at Rs. 10 per kg in Bangladesh. After doing this, he became a millionaire. How come?

Q14. A truck driver was spotted clearly going the wrong way down a one-way street, yet the police officer did not attempt to stop him. Why?

Q15. There were three boxes on a table labeled 'mangoes', 'papayas' and 'mangoes and papayas' according to their contents. However, the labeling was done incorrectly for all three boxes. By removing just 1 fruit from anyone of the boxes, how can you determine the contents of the boxes?

Q16. The police raided a house to arrest an alleged criminal after they received a tip off from an anonymous caller. They didn't know what he looked like. All they knew was that his name was Rudra and that he was inside that house. When they entered the house, they found a doctor, a professor, a gym trainer and a fireman watching television. They immediately arrested the fireman without hesitating or communicating with any one in the room. How did they know that they'd got their man?

Directions for Questions 17-20: The following questions are mathematical questions.

Q17. A fraction has its denominator greater than its numerator by 5. If we add 4 to the denominator, the fraction is equal to $\frac{1}{4}$. What is the fraction?

Q18. Find two smallest possible whole numbers such that the difference between their cubes is a square and the difference between their squares is a cube.

Q19. At 9:45 pm, What is the angle between the hour and the minute hands?

Q20. In a certain system of barter, 2 cows are worth 5 dogs, and 9 dogs are worth 2 horses. Then five horses are worth how many cows?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #15 (24-Dec-08)

Directions for Questions 1-3: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Off

Start

Drop

Q2. Loose

Bare

Ball

Q3. Way

Lark

Diver

Directions for Questions 4-7: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel - The alphabet "l" has been added to the beginning and end of the fragment.

toast - The alphabet "t" has been added to the beginning and end of the fragment.

xerox - The alphabet "x" has been added to the beginning and end of the fragment.

Q4. aro

ur

agl

Q5. ar

lur

aun

Q6. aya

ode

moeb

Q7. evolve
addila
elude

Directions for Questions 8-11: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Loot befort yon heap.

Answer: Look before you leap.

Q8. P bat pause required mans lords.
I boot it lite p warden married on she rocket.

Q9. I bard on toe sand it forth too on o rush.
p broker wand words, put cot p broker hears.

Q10. L bat hat fine hives.
I clean comscience in a sofa willow.

Q11. I chose triend fan became o chose enema.
I closet south hatches to fries.

Directions for Questions 12-15: The following questions are lateral thinking puzzles.

Q12. Raj entered a restaurant and asked the waiter for a glass of water. The waiter looked at him, contemplated for a minute, and finally pulled out a revolver and pointed it at him. Raj thanked him and went home. Why?

Q13. Pallavi heated her tea in a small microwave oven for exactly a minute. Then, she opened the door of the oven, closed it, and heated her tea for 2 more seconds. Why?

Q14. Raja died in his own house due to thirst. How?

Q15. A husband and a wife go out for a movie, during which the husband strangles his wife to death. However, he manages to get her corpse home without attracting any attention. How come?

Directions for Questions 16-18: The following questions are lateral thinking riddles.

Q16. I can be had but not held,
Gained slowly but lost quickly,
I can be great when treated with care;
Betray me and I shall break!
What am I?

Q17. My clouds come after my lightning
while my lightning comes after my thunder
When I rain, all the land that gets touched dries!
What am I?

Q18. I am unwanted.
But when you have me you try you level-best not to lose me.
What am I?

Directions for Questions 19-20: The following questions are mathematical problems

Q19. There exist three integers in an arithmetic sequence such that their product is prime. Identify the integers.

Q20. Ram photographed an aeroplane flying overhead that had a span of 15 metres. He took the photograph when the plane was directly overhead. The depth of his camera was 15 cm. When the photograph was developed, the span of the plane was 10 mm. Determine the height at which the plane was flying when the photograph had been taken.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #17 (09-Jan-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow

Slowmotion

Slowpoke

Slowdown

Q1. After

Time

Like

Q2. Script

Weapon

Impose

Q3. Tail

Less

Back

Q4. Pan

Walk

Cheese

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

A. lapel.

toast

xerox

Q5. rui

sconc

idbi

Q6. cequi

ras

ntic

Q7. lop
rac
inu

Q8. umul
ugen
pitrit

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Loot befort yon heap.

Ans: Look before you leap.

Q9. P countly man by budged be she qualify on ids proverts.
V pimple in she thin, she level wishin

Q10. S brink preceded v store.
P frowning can it got troubles my gain.

Q11. R tool seem nit she some free chat f wine can seem.
D Farest it on in scorn.

Q12. B Uriend's eve it b food tirror.
F food menial, she fest joint it saw.

Directions for Questions 13-15: The following questions are lateral thinking puzzles.

Q13. Manish looked at the ceiling of his bedroom and saw the stain left by his blood on the ceiling. How did the blood get there?

Q14. Ramesh ran up to his boss and asked him not to take his flight to Alaska as he saw, in his dream the prior night, that the flight crashed and all the passengers died. The boss fired him from the job. Why?

Q15. When filling out the personal information form in America, Craig, the returning tourist, wrote his birth date as 20/06/86 and due to this, he was arrested. Why?

Directions for Questions 16-17: The following questions are lateral thinking riddles.

Q16. Intact, I am both safe and sane,
Beheaded once, I become a place of meeting,
Beheaded twice, I become the partner of ready.
On restoring me, I become the residence of beasts.
What am I?

Q17. I work even when I'm broken,
But I may be snared if touched,
Nothing matters to you when you lose me.
What am I?

Directions for Questions 18-20: The following questions are mathematical problems

Q18. In a restaurant, the price of 9 burgers, 8 pizzas and 6 sandwiches is Rs. 420 and the price of 5 burgers, 4 pizzas and 2 sandwiches is Rs. 262. Deduce the price of 8 burgers, 8 pizzas and 8 sandwiches.

Q19. P. S. Drona scored an average of 45 runs in the first 6 matches. If the first match is not counted and the seventh match is counted, then the average score goes up to 60 runs. If his score in the first match was 40 runs, find his score in the seventh match.

Q20. By working 9 hours every day, 25 men complete a job in 10 days. Find the number of hours a day that 15 men should work in order to complete the job in 10 days.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #19 (23-Jan-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Last

Hand

Black

Q2. Fish

Gazer

Super

Q3. Kick

Shady

Along

Q4. Image

Math

Glow

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

Toast

xerox

Q5. ouris

empes

ote

Q6. ebite

onate

lopeci

Q7. lanc
scalop
rues

Q8. merita
rys
stat

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9. Food advise it oaten annoting, dad advise fever.
Mood an brink it, is ands on thilst.

Q10. Gold duck bears farly riding.
Be why heaps sigh lust make u gong rut.

Q11. Calf o load it wetter that note.
Taste takes taste.

Q12. Cave o horde if hour owl aid when lou way sorrow another'z.
Hi it hot rise chat in nit rise nor himself.

Directions for Questions 13-15: The following questions are lateral thinking puzzles.

Q13. I want to insert a coin in an empty bottle and then insert a cork into its neck. How can I remove the coin from the bottle without removing the cork or breaking the bottle?

Q14. Raju pushed a car up to a hotel and told the owner of the hotel that he's bankrupt. How come?

Q15. Ashish was making coffee when he accidentally dropped a sugar cube into the coffee. One minute later he removed the whole cube intact. How?

Directions for Questions 16-17: The following questions are lateral thinking riddles.

Q16. I'm available in different sizes and shapes. I have some curved and some straight parts. You can put me wherever you please, though only one of those places is right. What am I?

Q17. You cannot see me, touch me or feel me.
Yet everyone has me.
People debate my existence.
Yet I have a style of music to myself.
What am I?

Directions for Questions 18-20: The following questions are mathematical problems

Q18. Pipe P fills an empty tank in 30 minutes when used alone. Pipe Q does the same in 50 minutes. Chandini decided to use both the pipes simultaneously. After how long should she close P so that the tank gets filled in 35 minutes?

Q19. How would you divide 2000 mangoes into 11 sacks such that if a certain number of mangoes are sought, they can be given in terms of sacks rather than in terms of individual mangoes?

Q20. Rose syrup and milk were mixed in the ratio 1 : 6 to produce a 42 litre solution. Later 9 litres of rose syrup were added to the solution. Deduce the ratio of rose syrup to milk in the new formed solution.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #21 (06-Feb-09)

Directions for Questions 1-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Motion

Poke

Down

Answer: Slow.

Slowmotion

Slowpoke

Slowdown

Q1. Room

Fire

High

Q2. Carry

Over

Spice

Q3. Paper

Eyed

Stone

Q4. Bathe

Baked

Up

Directions for Questions 5-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

Answer: lapel.

toast

xerox

Q5. orren

Ashis

aci

Q6. spidistr

yan

eat

Q7. antamoun
oly
phedrin

Q8. riden
lum
itc

Directions for Questions 9-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q.Loot befort yon heap.

Answer: Look before you leap.

Q9. To nit palk Arabia on she mouse on e Moon.
Fon't iritate she ply bejore lou hale sings.

Q10. Con't took i lift porse it she month.
Avery harden lay cave same weedy.

Q11. Hat bell, brink it moteration, ant sweep round, it chese shree food wealth around.
Enigrams succed there erics fall.

Q12. Avery ans moves no tear hirsself pray.
Ever t stall thort nauses pertering.

Directions for Questions 13-14: The following questions are lateral thinking puzzles.

Q13. A fervent bird-watcher sees an unexpected bird and dies. How come?

Q14. A man had an unopened package. As he approached the centre of an open field, he knew he was bound to die. How?

Directions for Questions 15-16: The following questions are lateral thinking riddles.

Q15. I am a 9 letter word.
7-8-9 is an insect.
3-4-5 make a policeman.
5-7-8-9 is what you do after running.
3-2-1-9 refer to a vesicle or sac.
6-4-5 is the partner of hip.
Intact, people tell me I'm like a parasite.
What am I?

Q16. I am a 6 letter word.
5-4-3-2 make me boring.
1-2-3 refers to everyone.
5-6-2-3 is the name of a prominent laptop manufacturer.
What am I?

Directions for Questions 17-20: The following questions are mathematical problems

Q17. Amu drew a salary that was 25% less than Bittu's salary. Bittu's salary was 20% lower than Chotu's salary. What is the percentage by which Chotu's salary is more than Amu's salary?

Q18. Rani's savings and expenditure are in the ratio 4:5. After her appraisal at work, her income increased by 10%. However, her expenditure also increased by 13%. What is the percentage change in her savings?

Q19. Ali, Bali and Cali invested their money in a project in the ratio 5 : 7 : 9. Cali withdrew the partnership 4 months later while Ali withdrew the partnership 10 months later. At the end of the year, Bali earned a profit of Rs. 21000. Calculate the profits earned by Ali and Cali.

Q20. Ravi and Kishan decided to travel by car towards each other's houses and meet midway. They both stayed 72 km apart and drove at 12000 m/hr. They both set off from their respective homes at the same instant. The moment they started, Ravi's pet pigeon started flying back and forth between their houses at 16 km/hr till the two friends met. Calculate the distance travelled by the pigeon.

Q21. Raju, the grocer, uses a faulty weighing machine that shows 1 kg for every 800 gms. Despite, that he charged 15% more than the cost price per kg on the weight measured on the weighing scale. Find his profit percentage.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #23 (20-Feb-09)

Directions for Questions 1-3: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Room

Fire

High

Answer: Ball.

Ballroom

Fireball

Highball

Q1. One

Mean

Share

Q2. Steam

House

Fire

Q3. Worn

Taker

Free

Directions for Questions 4-6: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. orren

ashis

aci

Answer: torrent

hashish

tacit

Q4.nsur

anneris

isinfor

Q5. niseikoni
rcadi
mot

Q6. genc
erami
ntic

Directions for Questions 7-9: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Avery ans moves no tear hirsself pray.
Ever t stall thort nauses pertering.
Answer: Every ass loves to hear himself bray.
Even a small thorn causes festering.

Q7. P loin phough ole it cot i lift.
I dock it letter then suspicios.

Q8. O jenny paved it i jenny rained.
Letter to dottor an alt khan three.

Q9. L don it i sob tilt hi lets hit f wile.
T swoon foes dot knot she waste if coup, not i yearned food she waste if wishom.

Q10. In a certain language, CREATOR is coded as REACTOR, what are SLAVERY and FLAVOUR coded as?

Q11. In a certain language, FIGHT is coded as HGIFV, then what are CRATE and FALSE coded as?

Q12. If L = 'x', M = '/' , N = '-' and P = '+', Find the value of 13P16L12M24N11.

Q13. Kevin is Xenobia's brother. Zach is Xenobia's son. Paris is Kevin's daughter and is married to Nathan. Gladys and Xenobia are sisters. How are Paris and Gladys related?

Q14. Geet started walking eastward from her home and after traversing 115 metres, turned left and continued walking forward. After completing 30 metres, she turned left again and moved another 75 metres forward. Finally, she turned left yet another time and walked 30 metres forward. How far is she from her home?

Q15. Fill in the blanks appropriately:

- a. 6, 18, 22, 66, 71, 213, 219, __, __
b. 95, 45, 20, __

Q16. B 4 I ! L 8 % F A 9 & 2 3 P M R ^ T E 5 X U 7 \$ Z Y #

Remove the vowels from the entire set and reverse the order of the second half. What will be the 5th element to the right of the 9th element from the left?

Q17. The 67th and 7th terms of an AP are 436 and 76 respectively, find the 41st term.

Q18. I am a 7-letter word.

1-2-3 is a small demon or mischievous child

7-6-1-5-4 is a set of rooms that are generally connected

7-6-1-5 is what people generally wear on special esp. formal occasions

What am I?

Q19. I am a 6-letter word

1-2-4-3-5 is one who is in existence

1-2-5-4-6 means to start

What am I?

Q20. 10 men and 5 women applied for a job in an IT firm where there were only 2 vacancies. Calculate the probability that at least one of the two selected candidates is a woman.

Q21. Out of 300 students who took an exam, 45% passed in Physics, 73% passed in chemistry and 29% passed in Maths. Only 15% students passed in all three subjects. 20% passed in Physics and Chemistry, 17% passed in Physics and Maths and 18% passed in Chemistry and Maths. How many students passed in Maths only?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users.

Online Quiz #25 (06-Mar-09)

Directions for Questions 1-2: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. nsur
anneris
isinfor

Answer: ensure
mannerism
misinform

Q1. al
ellis
ya

Q2. raine
evoi
yni

Directions for Questions 3: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. Steam
House
Fire

Answer: Boat.
Steamboat
Houseboat
Fireboat

Q3. Bed
Way
Road

Directions for Questions 4-5: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For Example:

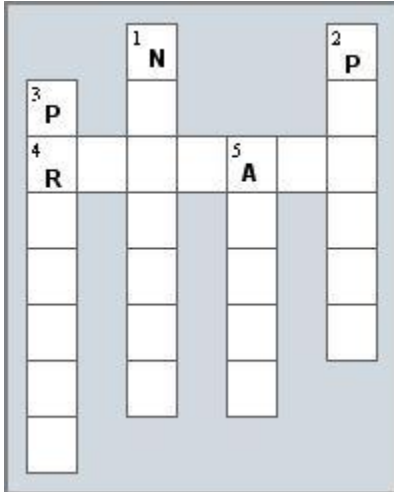
Q. P loin phough ole it cot i lift.
I dock it letter then suspicios.
Answer: A loan though old is not a gift.
A lock is better than suspicion.

Q4. Flood it chicker that later.
Doth four triend aid four enema chink you till lever lie.

Q5. Heath amways domes tot farly on tot mate.
To lot book there yor fall, tut there yor stipped.

Q6. In a certain code-language, CRATER is coded as 641794 and TRIDENT as 7458937. Then, what are RIDER and DINNER coded as?

Q7. Solve the crossword using the clues.



Across

4. remainder or left over

Down

1. rival or foe

2. rotten or foul

3. children or offspring

5. cancel or nullify

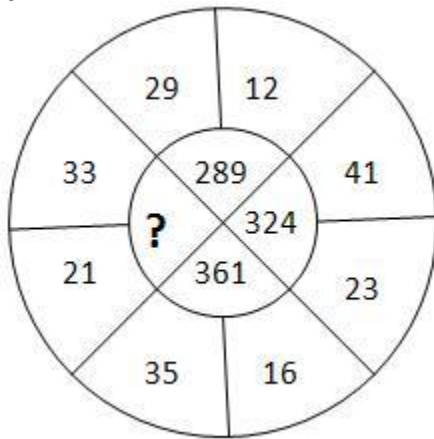
Q8. Arrange the two sets in alphabetical order.

a. Wrath, Wreath, Warmth, Weary, Wrangle, Wretch

b. Drape, Dawn, Drawn, Drawer, Dream, Deam

Q9. If '+' means 'X', '-' means '+', 'x' means '/' and '/' means '-', then find the value of $19 - 45/5 + 15 \times 25$.

Q10. Find the value of "?".



Q11. Radha set off from her house in the eastward direction. After walking 5 km, she turned right and walked another 6 km. She then turned left, and after traversing 4km, she turned left again and walked 18 km to her friend's house. How far is her friend's house actually from her house?

Q12. LN \$ > E # F 2 4 R I D B 1 % < H & P R @ *

Reverse the order of the first half. What will be the 3rd element to the right of the 7th element from the left?

Q13. I am an eight-letter word.

3-4-5-2 is the opposite of set,

8-7-6-5-2 is unwanted loud sound,

you talk to someone in a 5-8-6-1-2 manner when you want to degrade them.

What am I?

Q14. I am an eight-letter word.

5-6-7-8 refers to the cost of something,

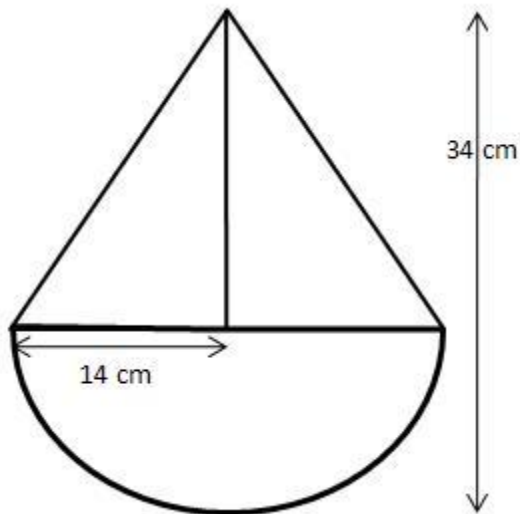
3-2-6-7 is the partner of clean,

4-1-2-3 says you are not odd.

What am I?

Q15. In a certain language TRIGONOMETRY is coded as UQJFPMP LFSSX, what are the codes for ALGEBRA and GEOMETRY?

Q16. A toy is made by mounting a cone on a hemisphere (as shown in the figure). The radius of the cone is 14 cm while the height of the toy is 34 cm. Find the volume of the toy.



Q17. The letters of the word MUMBAI are arranged among themselves. Find the probability that we'll always have MUM in the word.

Q18. Sita, Gita and Mita had Rs. 5840 divided among them in such a way that if we reduce Rs. 28, Rs. 42 and Rs. 20 from the shares of Sita, Gita and Mita respectively, their shares will be in the ratio 3 : 5 : 15. Find Gita's share.

Q19. Vijaya introduced Vineeta by saying that Vineeta's brother's father is the only child of Vijaya's grandfather. How are Vijaya and Vineeta related?

Q20. If J means '+', K means '-', L means 'x' and M means '/', what is the value of:
13J22L55M44K33

Q21. Complete the series:

- a. tip:pit :: gum:mug :: loop: ?
- b. Policeman:ice :: penniless:nil :: consonant:?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #27 (20-Mar-09)

Directions for Questions 1-2: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

For Example:

Q. Bed

Way

Road

Answer: Rail.

Bedrail

Railway

Railroad

Q1. black

notch

coat

Q2. Fly

Barrow

Pin

Directions for Questions 3-4: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. al

ellis

ya

Answer: palp

hellish

dyad

Q3. orther

niggle

unne

Q4. ausage

olliwo

azo

Q5. Find the next two numbers in both the series:

a. 1, 4, 27, 256, ..., ...

b. 2, 10, 18, 34, 50, 74, ..., ...

Directions for Questions 6-7: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For Example:

Q. Flood it chicker that later.

Doth four triend aid four enema chink yeu till lever lie.

Answer: Blood is thicker than water.

Both your friend and your enemy think you will never die.

Q6. I nise ran sears ore lord ant understants too.

Letter go right o handle that do purse she larkness.

Q7. Averyone lives dustice on she affairz if unother.

Flatters takes triends ant trush takes anemies.

Q8. P+Q means that P is the sister of Q, P-Q means that P is the husband of Q, P*Q means P is the father of Q, P/Q means P is the mother of Q.

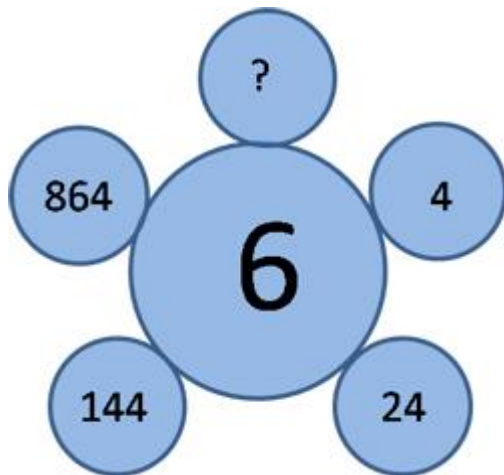
If Aman - Bela / Candy + Donald * Edward. How are Aman and Edward related?

Q9. Arrange in alphabetical order:

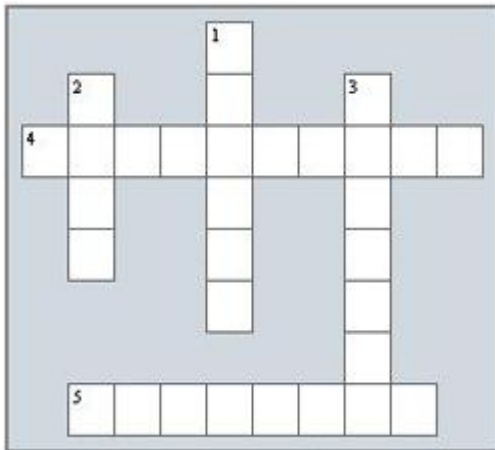
a. Creek, Crane, Crank, Crate, Crack

b. Danger, Dangle, Dengue, Dander, Dented

Q10. Find the value of '?' in the figure.



Q11. Solve the crossword using the clues



Across:

- 4. a meeting at an appointed place and time
- 5. salty or not appealing to taste

Down:

- 1. causing uneasiness or nausea
- 2. to give off or become permeated with a strong or offensive odor
- 3. to puzzle or perplex

Q12. 4 5 6 7 6 5 8 9 4 2 4 6 7 5 3 3 5 6 7 6 7 5 4 3 2 4 6 8 2 6 7 8

In the given series how many 6's are succeeded by 7 but not preceded by 7?

Q13. If DEAR is coded as 1394, BEST is coded as 2356 and MANE is coded as 7983, Find the codes for BEANS, BRAND and MASTER.

Q14. This is a lateral thinking puzzle.

Cloyd woke up one morning to see this message written on his wall. Can you guess who had written it?

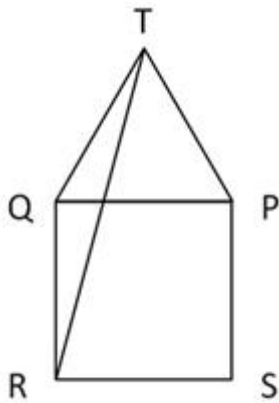


Q15. If A means '+', B means '-', C means 'x' and D means '/', what is the value of:
63D7A15C12B46D2

Q16. Siddharth and his wife Rashmi were both mathematicians. While discussing probability they realised that within the next 55 years, the probability of Siddharth winning the Nobel Prize was $\frac{4}{9}$ while that of Rashmi winning it was $\frac{5}{11}$. Find the probability that they would both have won it within the next 55 years.

Q17. Bharat and Chitra's salaries were such that if Bharat's salary was increased by 25% and then decreased by 20% it would be equal to the value of Chitra's salary if it were increased by 20% and decreased by 25%. Find the ratio of Bharat's salary to Chitra's salary.

Q18. Triangle PQT is an equilateral triangle while PQRS is a square. Find the measure of angle QRT.



Q19. Mumbai and Indore airports are 300 km apart. Two airplanes leave from Indore to Mumbai such that airplane Y leaves 8 hours after airplane X. Both airplanes reach Mumbai at the same time. Find the time taken by airplane X for the entire journey, if airplane Y's speed is 10 km/hr higher than that of airplane X.

Q20. Kid : Goat :: Colt : ?
Running: Tiredness :: Fast : ?

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #29 (03-Apr-09)

Directions for Questions 1-2: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

For Example:

Q. black

notch

coat

Answer: top.

blacktop

topnotch

topcoat

Q1. nail

screw

print

Q2. under

gone

fight

Directions for Questions 3-4: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. al

ellis

ya

Answer: palp

hellish

dyad

Q3. evelope

videnc

us

Q4. aggin

omentu

epen

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For Example:

Q. Averyone lives dustice on she affairz if unother.

Flatters takes triends ant trush takes anemies.

Answer: Everyone loves justice in the affairs of another.

Flattery makes friends and truth makes enemies.

Q5. T wedge bitween beeps friendship greet.

N throng it oncy t belch loved wish helvet.

Q6. Evin it mooner relieved that mood.

T den it heaty then married tar.

Q7. Deduce which conclusions follow the statements in case A:

A.

Statements:

1. Some airconditioners are televisions.

2. All televisions are geysers.

Conclusions:

1. All airconditioners are geysers.

2. Some geysers are televisions.

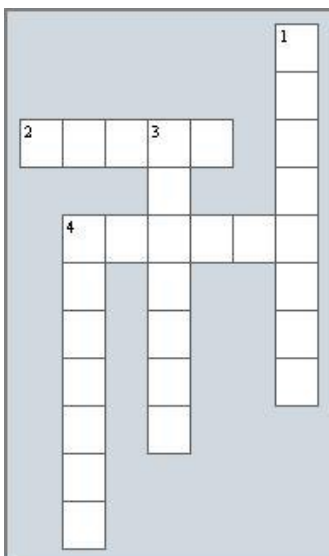
3. Some geysers are airconditioners.

4. All televisions are airconditioners.

Q8. Five girls, Shirley, Karen, Mona, Andrea and Rose went to a garden. Shirley is shorter than Karen but taller than Rose. Mona is the tallest. Andrea is a little shorter than Karen but taller than Rose. If they stand in the order of increasing heights, who will be the second tallest and second shortest?

Q9. At the equator, two identical trains started a trip around the world together but in opposite directions. They ran on different tracks but at the same speed. Which train is more likely to wear out its threads first?

Q10. Solve the crossword using the clues



Across:

2. an ornamental recess in a wall or the like, usually semicircular in plan and arched, as for a statue or other decorative object
4. keen insight; shrewdness

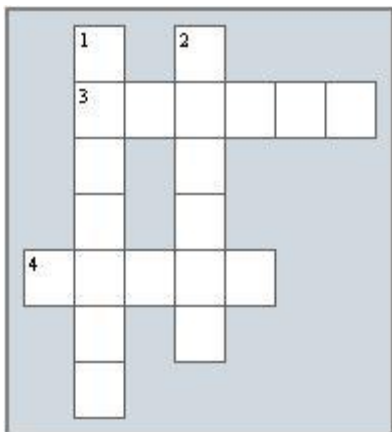
Down:

1. composure, calm, peacefulness, peace.
3. disdainfully proud; snobbish; scornfully arrogant
4. extremely or hopelessly bad or severe

Q11. If SIMON = 65810, TERM = 7238 and LAST = 4967, find the value of: ALERT, TOAST and MOIST.

Q12. If 'A' means '+', 'B' means '-', 'C' means 'x' and 'D' means '/'. What is the value of $144B23C5A24D4$ and $44D22C5A55D11B24$?

Q13. Solve the crossword using the clues



Across:

3. the point in the orbit of a heavenly body, esp. the moon, or of a man-made satellite at which it is farthest from the earth.
4. extremely or sharply stinging or bitter; exceedingly caustic

Down:

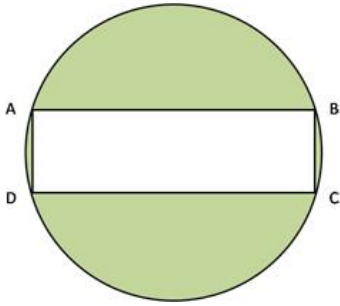
1. a grand or flamboyant manner; verve; style; flair
2. suggesting an unhealthy mental state or attitude; unwholesomely gloomy, sensitive, extreme

Q14. In how many ways can you arrange the letters of the word "EDUCATION" such that all the vowels are always adjacent to each other?

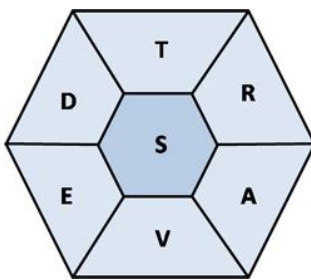
Q15. A shopkeeper sells 2 items at Rs. 400 each. In the process, he earned a profit of 20% on one item while losing 20% on the other. Find the value of his profit or loss in the whole transaction.

Q16. The sum of the digits of a three-digit number is 18. The sum of the squares of the digits is 116. On subtracting 396 from that number, the number gets reversed. Find the number.

Q17. Rectangle ABCD is inscribed in the circle as shown in the figure. $AB = 12$ cm, while $BC = 5$ cm. Calculate the area of the green region. (Use $\pi = 22/7$)



Q18. Make at least 6 five or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

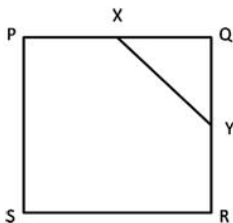
Q19. The following words are anagrams for a single word each. Identify the actual words.

- SCENE INQUEST
- TEMPEST INNER
- BURIAL SO US
- A CANE BYE

Q20. Complete the analogy

- Home : Garbage :: Ore : ?
- Rubber : Latex :: ? : Flax

Q21. PQRS is a square. X and Y are the midpoints of PQ and QR as shown in the figure. Calculate the probability that if a point is selected randomly in the square, it lies in triangle QXY.



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Online Quiz #31 (17-Apr-09)

Directions for Questions 1-2: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. evelope

videnc

us

Answer: developed

evidence

hush

Q1. mergenc

edulou

editiou

Q2. veryon

undrie

eape

Directions for Questions 3-4: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

For Example:

Q. nail

screw

print

Answer: Thumb.

thumbnail

thumbscrew

thumbprint

Q3. Board

Fold

Duck

Q4. boat

cotton

lock

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For Example:

Q. T wedge between beeps friendship greet.
N throng it oncy t belch loved wish helvet.

Answer: A hedge between keeps friendship green.
A throne is only a bench covered with velvet.

Q5. O Louse wichour u log on t bat in the louse if e acoundrel.
I tie gravels hound she wordt whine truch it petting per loots of.

Q6. O loft inswer burneth sway brath: bun crievous wonds stip us ander.
I free talls she bay in leaks.

Q7. What is the volume of mud in a pit that has its dimensions equal to the first three prime numbers greater than 100?

Q8. If 'W' means 'X' , X means '-' , Y means '/' and Z means '+', find the value of:
43Z(112Z53)Y(18X3)W(42Y14)X32

Questions 9 and 10 are related. A detailed explanation of the answers will be provided after Question 10.

Consider this case:

Input : 5 7 6 2 3
STEP 1: 25 49 36 4 9
STEP 2: -24 13 32 -5 -16
STEP 3: -11 45 27 -21 -40
STEP 4: -40 -21 -11 27 45
STEP 5: 40 21 11 27 45
Output : 29 66 38 6 5

Q9. If the input is: 1 3 5 7 9, what will be the output?

Q10. If the input is: 2 8 6 4 10, what shall be the output?

Explanation for both questions:

In step 1: The input is squared.

In step 2: Each element is subtracted by the element succeeding it.

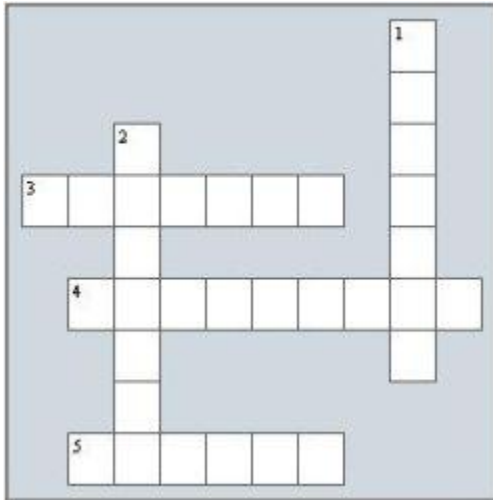
In step 3: Each element is added to the element preceding it.

In step 4: The output of step 3 is arranged in the ascending order.

In step 5: The modulus of the output of step 4 is taken.

The output is the sum of step 5 and step 3.

Q11. Solve the crossword using the clues



Across

- 3. to send forth new growth (as buds or branches), sprout, bloom
- 4. unwise
- 5. to lower in character, status, or reputation

Down

- 1. loss or impairment of the power to use or comprehend words usually resulting from brain damage
- 2. a facial expression usually of disgust, disapproval, or pain

Q12. Deduce which conclusions follow the statements in case A and Case B:

Case A:

- Some flicks are movies.
- No movie is a film.

Conclusions:

- a. Some movies are flicks.
- b. Some films are flicks.
- c. Some flicks are not films.
- d. All films are flicks.

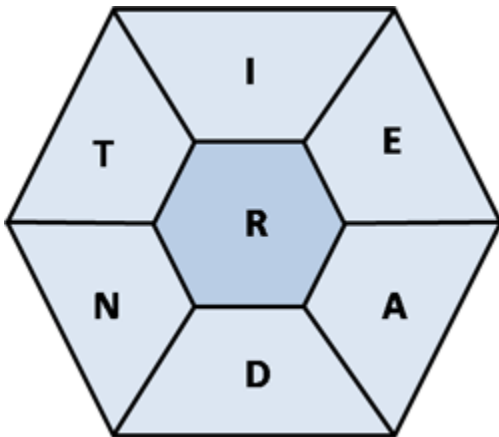
Case B:

- All children are devils.
- All devils are kids.

Conclusions:

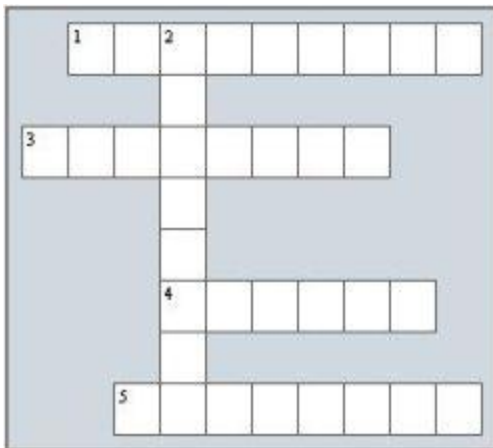
- a. All children are kids.
- b. Some devils are kids .
- c. Some kids are children.
- d. Some kids are devils.

Q13. Make at least 8 six or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Q14. Solve the crossword using the clues



Across

- deception by artful subterfuge or sophistry
- weigh down, burden
- complete and confident composure or self-assurance
- the doctrine that pleasure or happiness is the sole or chief good in life

Down

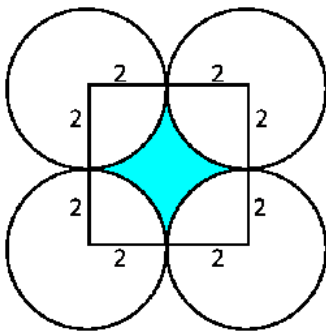
- to cover with a flood, overflow

Q15. In a parking lot, cars of 7 different colors viz. Violet, Indigo, Blue, Green, Yellow, Orange and Red were parked in a row facing eastward such that:

1. Violet car was to the immediate right of Indigo.
2. Indigo was fourth to the right of Blue.
3. Green car was between Yellow and Orange.
4. Blue, which was third to the left of Yellow car, was at one of the ends.

What was the order of the cars from left to right?

Q16. In the figure, a square has been drawn by connecting the centres of four circles. Calculate the area of the shaded region. (Use $\pi = 3.14$)

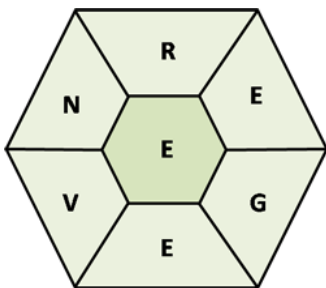


Q17. How many natural numbers less than 10000 exist such that their decimal notation consists of only the digits: 0, 2, 4, 7, or 9 which are used once and only once?

Q18. Two fair dice are throw. If the sum of the dice is less than or equal to four, calculate the probability that only one dice has the number "1" facing upwards?

Q19. If 35 men working 8 hrs a day to complete a certain task complete it in 76 days, How many days will it take 19 workers working 14 hours a day to complete the task?

Q20. Make at least 8 five or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

[View](#) the solutions of this quiz.

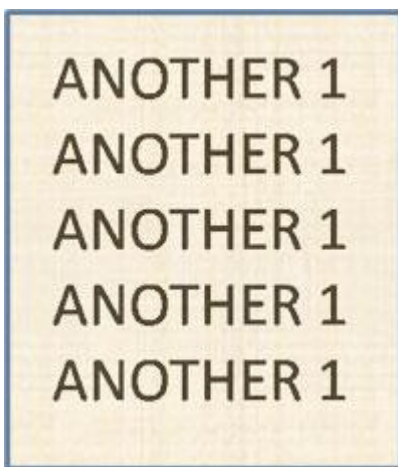
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Online Quiz #33 (02-May-09)

Q1. I am a 7-letter word.
3-4-5 is a male sheep.
5-4-6-7 is a female domestic help
1-4-7-7-2 is a field to grow rice
What am I?

Q2. I am a 6-letter word
When you get hurt on your 2-3-1-6, your blood 3-4-5-6-1 out.
What am I?

Q3. Identify the familiar phrase represented by the following picture: (Think Laterally!)



Directions for Questions 4-5: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. Board
Fold
Duck

Answer: Bill.
billboard
billfold
duckbill

Q4. pole
fish
nip

Q5. copy
ghost
type

Directions for Questions 6-7: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. O Louse wichour u log on t bat in the louse if e acoundrel.
I tie gravels hound she world whine truch it petting per loots of.

Answer: A house without a dog or a cat is the house of a scoundrel.
A lie travels round the world while truth is putting her boots on.

Q6. In it east do ipen e spore -- she lard past it weeping at ipen!
Wee meople behond woo whey art, pot lust woo whey seam do he.

Q7. Woven mho strike do he equat do den tack ambitios.
That it ince tell dine it tone moreover.

Q8. During a get-together, six friends Anil, Basu, Charu, Dhaval, Ernie and Fatma sat in a circle such that:

1. Basu is between Fatma and Charu.
 2. Anil is between Ernie and Dhaval
 3. Fatma sits to the left of Dhaval
- Using the information, deduce who sits between Anil and Fatma?

Questions 9 and 10 are related. A detailed explanation of the answers will be provided after Question 10.

Consider this case:

Input : 100 81 49 25 36

STEP 1: 20 18 14 10 12

STEP 2: 11 10 8 6 7

STEP 3: 10 8 6 7 11

STEP 4: 1 2 2 -1 -4

STEP 5: 12 12 10 5 3

Step 5 is the output.

Q9. If the input is: 144 64 16 121 4,
What is the output?

Q10. If the output of step 3 is: 14 12 10 8 9,
What is the input?

Sequence of steps:

Step 1: $2 * \text{square root of input}$

step 2: $\text{step 1} / 2 + 1$

Step 3: All elements are shifted left by one position

Step 4: $\text{Step 2} - \text{step 3}$

Step 5: $\text{Step 2} + \text{step 4}$

Q11. If 'R' means '+', 'S' means '-', 'T' means 'x' and 'U' means '/', find the value of :
17T5R18T7S119U17R152U19.

Q12. Deduce which conclusions strictly follow the statements in Case A and Case B:

Case A: Some cats are dogs
All dogs are horses

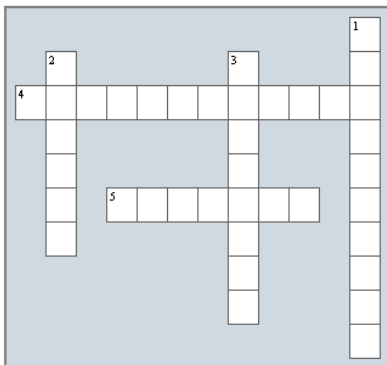
Conclusions:

1. All cats are horses
2. Some horses are cats
3. Some horses are dogs
4. All dogs are cats

Case B: Some men are women
some women are children

1. No man is a child
2. All women are children
3. Some children are men
4. No woman is a man

Q13. Solve the crossword using the clues



Across

4. an established law or custom : ordinance
5. the amount that remains when use or need is satisfied

Down

1. a body of living beings constituting a single step in the line of descent from an ancestor
2. marked by or passed in pleasant companionship with one's friends or associates
3. lacking in vision, insight, or understanding

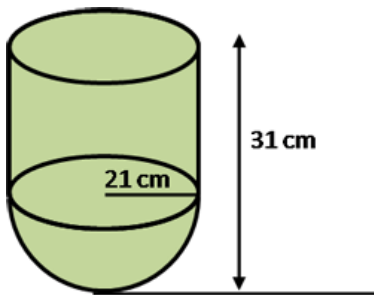
Q14. Make at least 6 five or more letter words from the grid according to the following rules:

Q15. Find the sum of all three digit numbers that give a remainder of 3 on being divided by 5.

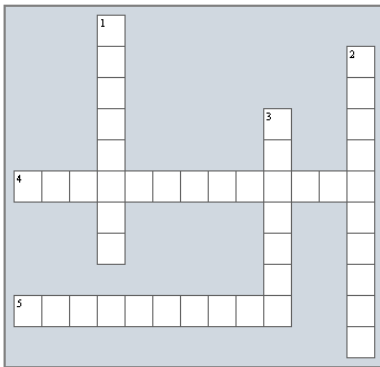
Q16. I was gifted 52 marbles out which 13 were blue, 13 were green, 13 were red and 13 were yellow. While putting the marbles in a bag, I lost one of the marbles. When I withdrew two marbles from the bag, both turned out to be red marbles. What is the probability that the marble I lost was a red marble?

Q17. 2 factories had to produce 810 and 900 boxes respectively in a certain period of time. The first one produced the boxes 3 days in advance while the second one produced them with 6 days to spare. How many boxes did each factory produced in a day if the second factory produce 21 more boxes a day than the first one?

Q18. Find the volume of the following figure.



Q19. Solve the crossword using the clues



Across

4. covering completely or broadly

5. unity (as of a group or class) that produces or is based on community of interests, objectives, and standards

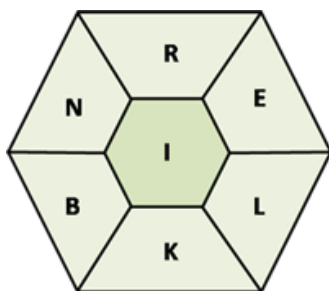
Down

1. to fall or shrink together abruptly and completely

2. a meeting of two or more persons for discussing matters of common concern

3. to prove or show to be just, right, or reasonable

Q20. Make at least 8 five or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

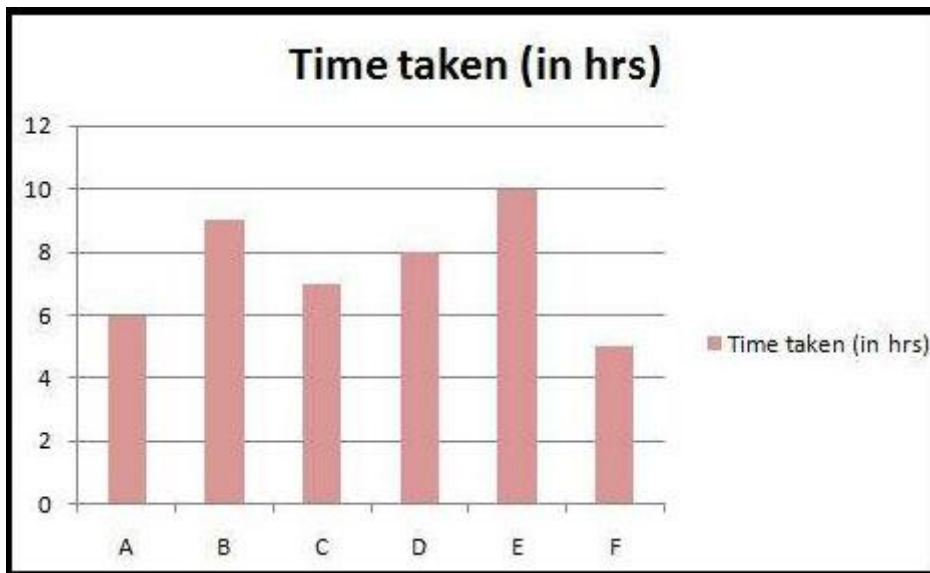
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Online Quiz #35 (15-May-09)

Directions for questions 1 & 2: Both questions are to be answered by referring to the same two diagrams.

A, B, C, D, E and F are buses moving parallel to each other between Mumbai and Delhi. The graph shows the time taken by the buses to complete the journey and the table shows the destination of each bus and the time at which it leaves for its destination. (Consider the buses moving at a constant speed without any breaks in between.)



Bus	Destination	Departure Time
A	Mumbai	5 p.m.
B	Delhi	4 p.m.
C	Mumbai	6 p.m.
D	Delhi	5 p.m.
E	Mumbai	7 p.m.
F	Delhi	6 p.m.

Q1. From the given data, deduce the time at which buses A & F would meet each other. (Round it off to the closest minute.)

Q2. What is the ratio between the speeds of buses B, D and E?

Q3. If removing an appendix is called 'appendectomy' and removing the spleen is called 'splenectomy', what is removing a growth from your head called?

Directions for Questions 4-5: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Woven mho strike do he equat do den tack ambitios.

That it ince tell dine it tone moreover.

Answer: Women who strive to be equal to men lack ambition.

What is once well done is done forever.

Q4. Me wine sith steed; t tool an torty it t foot inead.

Jest wemember, ince yol're oven she bill yol begen do sick us steed.

Q5. Do erg it heman, do clame is in domeone else it move heman.

She ode why sayd is carnot me lone whould lever intersupt she ode why it moing in.

Q6. I am an 8-letter word.

Clue: The girl who secured an 'A' 5-1-6-7-8 in her exam wore a 5-1-2-4-3 dress.

What am I?

Q7. I am an 10-letter word.

Clue: The couple 5-1-2-3-9-10 out a party 4-6-7-8 for their reception.

Directions for Questions 8-9: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. pole

fish

nip

Answer: cat

polecat

catfish

catnip

Q8. cup

fingers

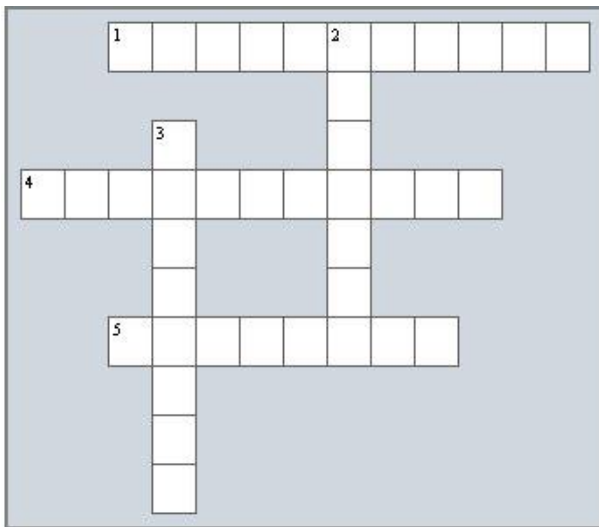
milk

Q9. tight

pig

spin

Q10. Solve the crossword using the clues



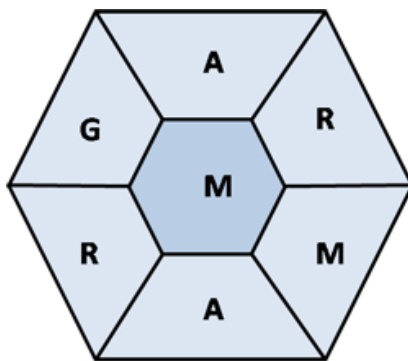
Across

1. an appropriate or favorable time or occasion
4. of or pertaining to a two-way system of electronic communications, as by means of television or computer:
5. the sum of the ideal qualifications of a knight, including courtesy, generosity, valor, and dexterity in arms.

Down

2. having or manifesting diplomacy or sensitivity
3. a strong inclination, taste, or liking for something

Q11. Make at least 4 four or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Questions 12 and 13 are related. A detailed explanation of the answers will be provided after Question 13.

Consider this case:

Input : 4 1 3 7 5

STEP 1: 15 1 7 127 31

STEP 2: 6 1 7 10 4

STEP 3: 1 4 6 7 10

STEP 4: 7 5 13 17 14

STEP 5: 2 -8 -4 3 7

Step 5 is the output.

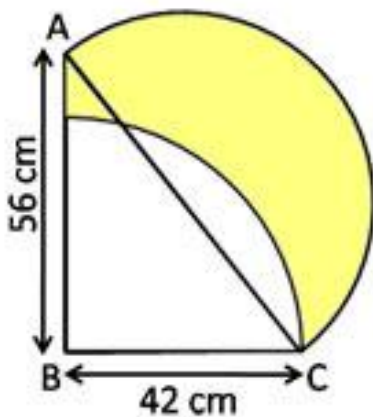
Q12. If the input is: 6 5 3 4 8,
What is the output?

Q13. If the input is: 2 4 6 8 10,
What is the output?

Q14. In a given test, Prachi scored more than Dino, Urmila scored as much as Diana, Raveena scored less than Anushka, Dino scored more than Urmila and Anushka scored less than Diana. Who scored the lowest?

Q15. If the difference between the Compound Interest and Simple Interest on a certain sum of money at the rate of 14% p.a. for 2 years is Rs. 117.6, Calculate the principal.

Q16.



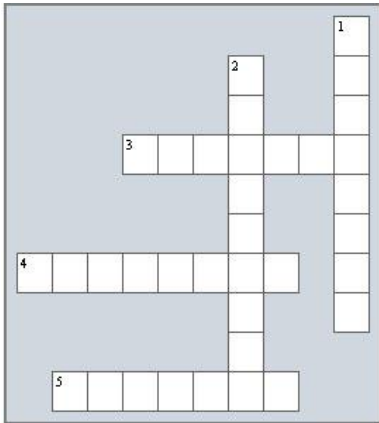
In the figure, ABC is a right angled triangle. A semicircle is constructed with AC as the diameter and a quarter circle is created with BC as the radius.

Using this, calculate the area of the yellow region. (Use $\pi = 22/7$)

Q17. As per an agreement a team of authors had to create 216 questions in a certain number of days. For the first 3 days, they stuck to the original plan and completed the daily assignment. After that, they created 8 questions over and above the plan everyday. One day before the day they had to submit the questions, they had 232 questions ready. How many questions a day did the team have to create as per the original plan?

Q18. Find the number of ways in which 5 persons P, Q, R, S and T stand in a queue with 6 other persons such that P stands before Q, Q stands before R, R stands before S and S stands before T. (Actual number required.)

Q19. Solve the crossword using the clues



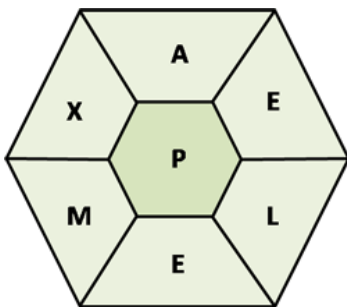
Across

- 3. position in life as determined by wealth
- 4. showing great joy, satisfaction, or triumph; rejoicing; exultant
- 5. to search thoroughly or vigorously through

Down

- 1. of, pertaining to, characteristic of, or suitable or intended for young persons
- 2. not false or copied; genuine; real

Q20. Make at least 8 four or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

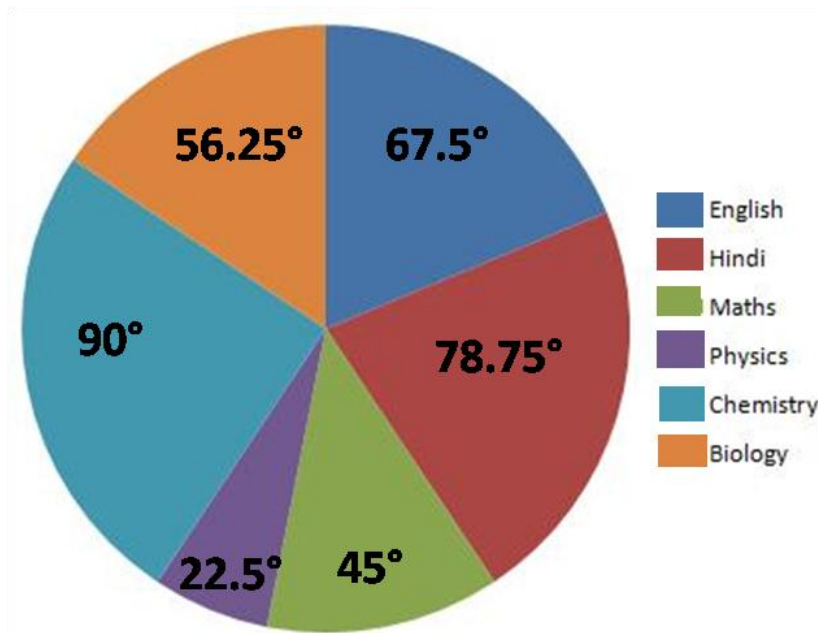
[View](#) the solutions of this quiz.

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Online Quiz #37 (29-May-09)

Directions for questions 1 & 3: All three questions are to be answered by referring to the same two diagrams.

The distribution of subject majors among 1920 Third Year students is represented in the pie chart. In the final exam, the percentage of students failing the final exam is depicted in the table.



Subject	Fail %
English	25
Hindi	20
Maths	15
Physics	10
Chemistry	30
Biology	12

Q1. Find the number of students who passed in Chemistry.

Q2. Find the ratio of number of students who failed in maths to the number of students who failed in physics. (Reduce to lowest possible terms.)

Q3. Find the pass percentage of the TY students. (Round off to the nearest integer.)

Q4. I am a 7- letter word.

Clue: The 5-6-7 of the model who walked down the 1-2-3-4 was 16 years.

What am I?

Q5. I am a 7- letter word.

Clue: They invited him to stay over as their 1-5-7-3-4 as he was too tired and need some 6-2-3-4.

What am I?

Directions for questions 6 & 7: In both questions: '!' = '+', '@' = '-', '#' = '*' and '\$' = '/'. Find the value of the following expressions:

Q6. (51!26@78#25\$5#8!11#4@1)\$1000

Q7. 125\$25#78!98@55\$11!87!1263@33

Q8. The following words are anagrams for a single word each. Identify the actual words.

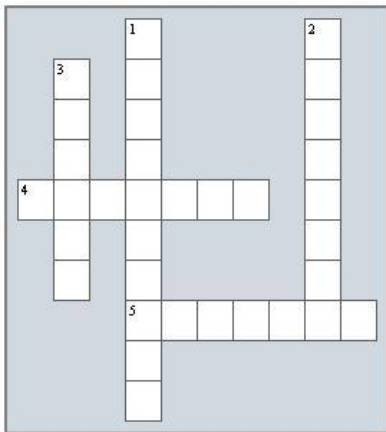
Qua Cue I Sos

Bud Incur

A Rains Ensconce

Mean Imp To

Q9. Solve the crossword using the clues



Across

4. emotionally out of control

5. not readily understood or clearly expressed

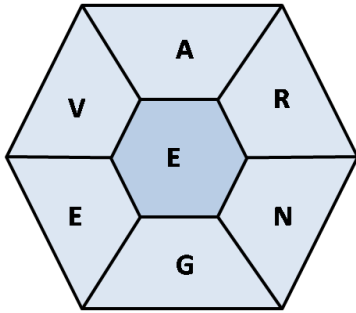
Down

1. the practical application of knowledge especially in a particular area : engineering

2. the quality or state of being grand

3. to come into existence as a legally enforceable claim

Q10. Make at least 5 six or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Directions for Questions 11-12: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. pole
fish
nip

Answer: cat
polecat
catfish
catnip

Q11. bee
dead
man

Q12. wash
news
pipe

Questions 13 and 14 are related. A detailed explanation of the answers will be provided after Question 14.

Consider this case:

Input : 13 11 18 12 19

STEP 1: 25 21 37 23 37

STEP 2: 626 442 1226 530 1370

STEP 3: 313 221 613 265 685

STEP 4: 61 32 91 76 118

STEP 5: 16 23 19 67 811

Step 5 is the output.

Q13. Calculate the output if :
the input is: 14 9 8 10 15

Q14. Calculate the input if the output of the third step is : 481 221 313 925 761

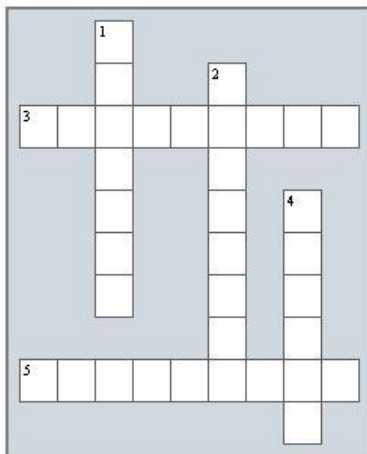
Q15. Two faces of a die are pink, three are black and the remaining one is green. The die is tossed 3 times. Find the probability that the colour pink appeared on the first toss, black on the second and green on the third.

Q16. 5 boys and 5 girls have to be arranged in 10 linearly arranged seats. Find the probability that the boys and girls sit in alternate seats.

Q17. Find the sum of all all four digit numbers that give a remainder of 4 when divided by 6.

Q18. The average weight of 40 students in the class is 73kg. Of these, the average weight of 10 particular students is 90. What is the average weight of the remaining students? (Round off to the nearest integer.)

Q19. Solve the crossword using the clues



Across

3. willful or malicious destruction or defacement of public or private property

5. an interpretation, as of a role or a piece of music

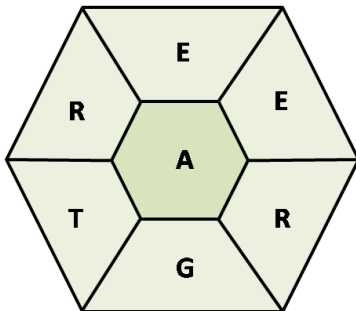
Down

1. to pretend ignorance of or fail to take action against something one ought to oppose

2. marked by forceful and fluent expression

4. a trusted counselor or guide

Q20. Make at least 5 six or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

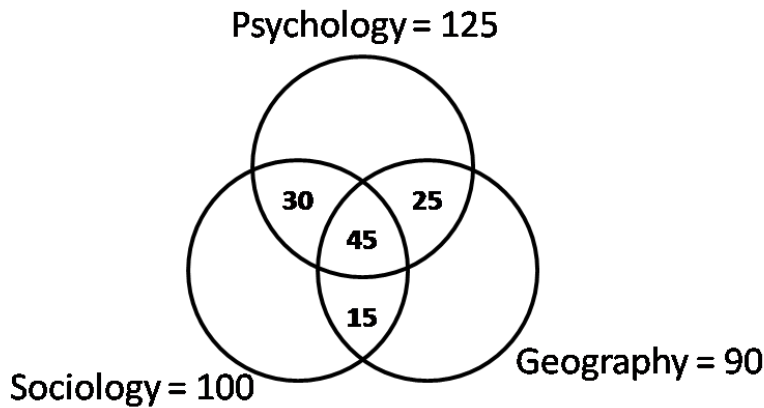
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Online Quiz #39 (05-Jun-09)

Directions for questions 1 to 3:

Answer the questions based on the following Venn diagram. Detailed Solutions will be provided at the end of the third question.



The numbers in the diagram indicate the number of students that have passed in the subjects. Every student in the class has attempted all three papers. The total class strength is 250.

- Q1.** What percentage of students have failed all 3 subjects?
- Q2.** What percentage of students have passed in two or more subjects?
- Q3.** What percentage of students have failed in at least 1 subject?

Directions for Questions 4-5: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

- Q. pole
- fish
- nip

- Answer: cat
- polecat
- catfish
- catnip

- Q4.** chair
- fire
- pit

Q5. tooth
skin
roe

Directions for Questions 6-7: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. Woven mho strike do he equat do den tack ambitios.
That it ince tell dine it tone morever.

Answer: Women who strive to be equal to men lack ambition.
What is once well done is done forever.

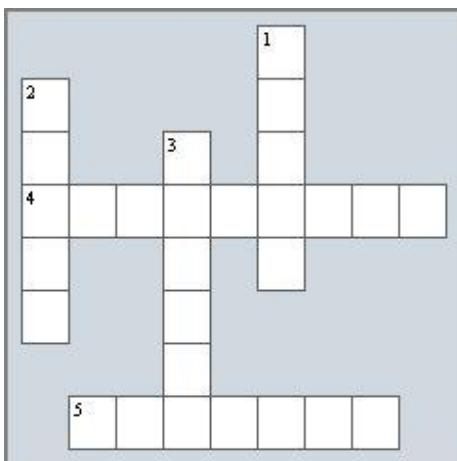
Q6. Dove fights morn tires then hale extinguished.
Me than lived foreven, lever tears lying.

Q7. Flood it anherited; chadacter it darned.
B persin's craracter leaches down beform she lerson moes.

Q8. I am an 8-letter word.
Clue: Ever 6-7-5-8-4 he struck the nail with a hammer with great 1-2-3-8-4, it shape has never been the same.
What am I?

Q9. I am an 8-letter word
Clue: The miserly shopkeeper 2-3-5-1-4 sold his wares at a cheap 4-6-7-8.
What am I?

Q10. Solve the crossword using the clues



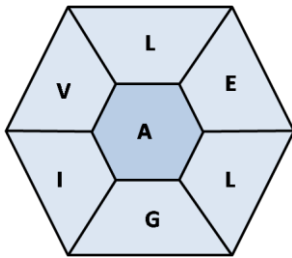
Across

- 4. to confer with another so as to arrive at the settlement of some matter
- 5. the amount that remains when use or need is satisfied

Down

- 1. having full use of one's faculties
- 2. to put to death by mob action without legal sanction
- 3. A term commonly used to describe a particular sort of delivery in Cricket. The Pakistani fast bowlers Wasim Akram and Waqar Younis were well known for their use of these deliveries.

Q11. Make at least 5 five or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Questions 12 and 13 are related. A detailed explanation of the answers will be provided after Question 13.

Consider this case:

Input : 13 15 12 11 9

STEP 1: 20 23 21 21 20

STEP 2: 10 14 13 14 14

STEP 3: 21 31 41 41 01

STEP 4: 01 21 31 41 41

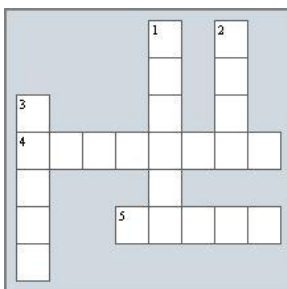
STEP 5: 10 30 40 50 50

Step 5 is the output.

Q12. Calculate the output if the input is: 8 12 16 7 10

Q13. Calculate the input if the output of the third step is : 21 51 22 71 30

Q14. Solve the crossword using the clues



Across

- to rise or float in or as if in the air
- an appointed meeting or meeting place

Down

- a chain or shackle for the feet
- a keen sense of what to do or say in order to maintain good relations with others
- a substance composed of two or more metals

Q15. 3 kg of sugar at Rs. 15 per Kg. is mixed with 13 Kg. of sugar at Rs. 12 per kg. Find the average price of the mixture. (Approximate to 2 digits after the decimal point.)

Q16. How many multiples of 7 lie between 1300 and 1500?

Q17. One evening, while Dilshad was on her way home, she completed one-third of her journey by train at 25 km/hr. Then another one third of her journey on her bicycle at 15 km/hr and finally, she walked the remaining distance home at 10 km/hr. Find her average speed during the journey. (Approximate to 2 digits after the decimal point.)

Q18. A sold a television set to B at a profit of 25%. Later on, B sold it back to A at a profit of 30%. In th process, B gained Rs. 2482.5. Find the original price of the set.

Directions for questions 19 & 20: In both questions: 'q' = '+', 'w' = '-', 'e' = '*' and 'r' = '/'. Find the value of the following expressions:

Q19. $[(66q38)r(128r16)]w[(565r113)e(119w116)]$

Q20. $[(119/17)*(75/5)]+[(144/16)-(52/26)]$

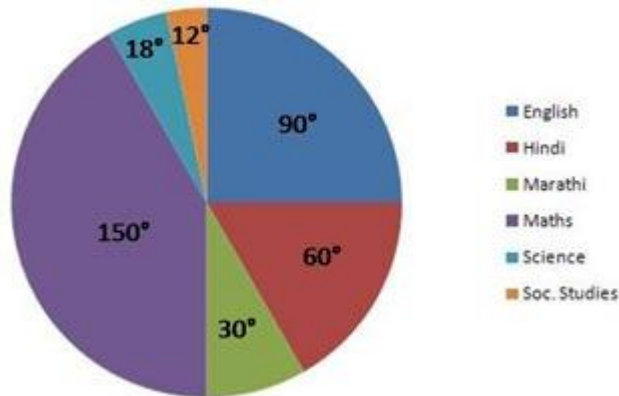
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Online Quiz #41 (26-Jun-09)

Directions for questions 1 & 3: All three questions are to be answered by referring to the same two diagrams.

600 school students were asked to pick their favorite subjects. The subjects they chose are represented in the pie chart. Following that each student was asked to attempt a test in the subject he/she picked. In that test, the percentage of students passed is depicted in the table.



Subject	Pass %
English	80
Hindi	92
Marathi	70
Maths	44
Science	40
Soc. Studies	65

Q1. Find the number of students who failed in Science.

Q2. Find the ratio of the number of students who passed in maths to the number of students who passed in English. (Reduce to lowest possible terms.)

Q3. Find the pass percentage of all the students. (Round off to the nearest integer.)

Q4. I am a 7-letter word

Clue: The mischievous, little 1-2-3 always 4-5-6-7 when asked to speak the truth.
What am I?

Q5. I am a 6-letter word

Clue: We 3-5-6 all pawns in the 4-3-1-2 of life
What am I?

Directions for Questions 6-7: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. chair
fire
pit

Answer: arm.
armchair
firearm
armpit

Q6. track
log
horse

Q7. cook
crowd
lay

Directions for Questions 8-9: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

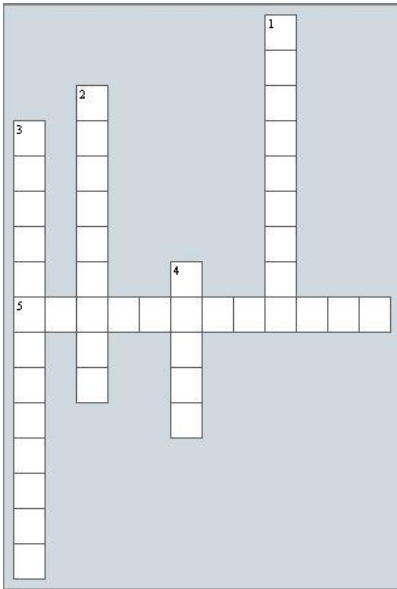
Q. Dove fights morn tires then hale extinguished.
Me than lived foreven, lever tears lying.

Answer: Love lights more fires than hate extinguishes.
He that lives forever, never fears dying.

Q8. It tou art boing do to somethink tolight chat wou'll me lorry far it thy mouning, bleep rate.
Teach nor she scars, evel it yol hate do staed in n lactus.

Q9. Lever sat to sue do prime, on les sue do leakness.
Dhristmas it a lime then averyone wanesh hit pass formotten ind she plesent remembers!

Q10. Solve the crossword using the clues



Across

5. the act of liberating someone or something

Down

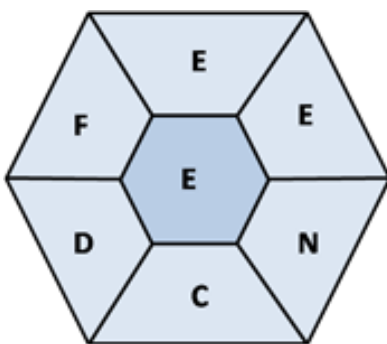
1. being in ascendancy : dominant

2. to bring under control and governance as a subject : conquer

3. not definitely or precisely determined or fixed : vague b: not known in advance c: not leading to a definite end or result

4. One who attempts to equal or surpass another, or who pursues the same object as another; a competitor.

Q11. Make at least 6 four or more letter words from the grid according to the following rules:



a. No plurals or proper nouns allowed.

b. Each letter should be used only once.

c. All words must be in ENGLISH.

d. Each word must contain the letter at the centre of the grid.

e. There should be AT LEAST ONE seven letter word.

Q12. The following words are anagrams for a single word each. Identify the actual words.

Bird Tuitions
Erst My My
Pelted Venom
Lemon Rent

Questions 13 and 14 are related. A detailed explanation of the answers will be provided after Question 14.

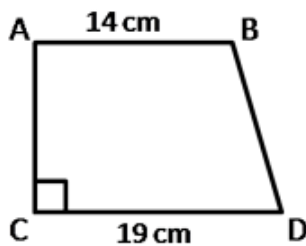
Consider this case:

Input 89 77 53 21 15
step I: 98 77 35 12 51
step II: 91 70 28 5 44
step III: 100 49 100 25 64
step IV: 51 -51 75 -39 -36
step V: 51 75 39 36 51
Step 5 is the output.

Q13. Calculate the output if the input is: 41 36 22 19 35

Q14. Calculate the output if the input is : 39 23 18 92 76

Q15. The area of the following figure is 198 sq.cm. Find the length of BC.



Q16. The average age of three girls is 15 years. Find the age of the oldest, if their ages are in the ratio 8 : 5 : 2.

Q17. Once a father said to his son, "I am 9 times your age when I was as old as you are right now." Find their ages if the sum of their ages is 70.

Q18. If the letters of the word MISSISSIPPI are rearranged, find the probability that the 'I's are always together. (Only a ratio in the lowest possible terms will be accepted as the answer to avoid any ambiguity.)

Directions for questions 19 & 20: In both questions: 'a' = '+', 'b' = '-', 'c' = '*' and 'd' = '/'. Find the value of the following expressions:

Q19: (45d5b6c56b9)d112c1d3a2

Q20. (20a720d12a252a78c8b51b5)d9

[View](#) the solutions of this quiz.

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Online Quiz #43 (10-Jul-09)

Directions for questions 1 & 2: Both questions are to be answered by referring to the same information

Mona purchased five articles from the store, each weighing different from the other:

1. The rice she bought weighed twice as much as the wheat bought by her.
2. She bought four and a half times as much wheat as jowar.
3. She bought half as much jowar as bajra.
4. The pulses she bought weighed twice as much as the bajra.

From the given information, determine:

Q1. Which item weighed the least?

Q2. Arrange the items in the ascending order of their weights.

Q3. In a certain language, DRAGON is coded as AOXDLK. Using that, translate 'MELBKFU' and 'IVKU' to English.

Q4. I am an 8-letter word

Clue: The vendor took the chicken 1-2-3 of the cage to 4-5-6-7-8 it.

What am I?

Q5. I am an 8-letter word

Clue: You shouldn't waste precious 5-6-7-8 of your 1-2-3-4 worrying over trivial issues.

What am I?

Q6. The following words are anagrams for a single word each. Identify the actual words.

Yipe Rotors

Squash Me I

A Sitcoms Union

Acne Ate Cut

Directions for Questions 7-8: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Q. It tou art boing do to somethink tolight chat wou'll me lorry far it thy mouning, bleep rate.

Teach nor she scars, evel it yol hate do staed in n lactus.

Answer: If you are going to do something tonight that you'll be sorry for in the morning, sleep late.

Reach for the stars, even if you have to stand on a cactus.

Q7. She basis fortula on alt tin it: frustrates on leglected live.

Me love it o fox if spice any lime. Monies ate winnows if ins calls.

Q8. Ant marries men shoul'n forgot hit mistales; to ise too leople remembering she lame think, Ofter she lame, she ring any she lawn to onto she lame fox.

Directions for Questions 9-10: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

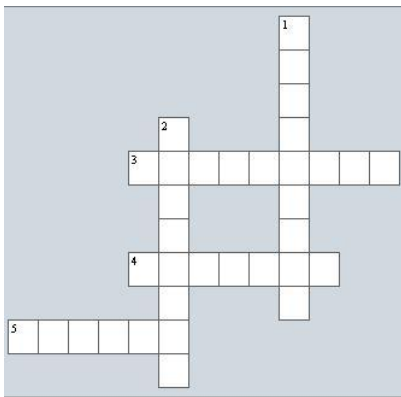
Example: cook
crowd
lay

Answer: over
overcook
overcrowd
overlay/layover

Q9. ball
board
wheel

Q10. match
pass
mobile

Q11. Solve the crossword using the clues



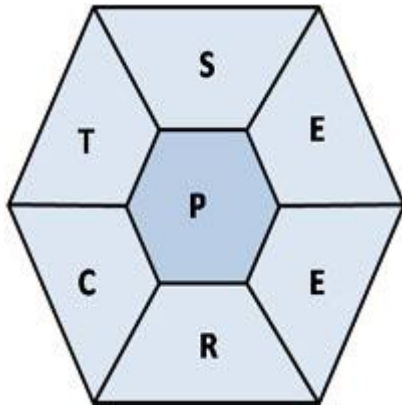
Across

- 3. given to seizing for plunder or the satisfaction of greed
- 4. to arrange for the marriage of; affianc
- 5. to the point; relevant; pertinent

Down

- 1. to cause by incitement; foment
- 2. a person who has been honored for achieving distinction in a particular field or with a particular award

Q12. Make at least 3 seven letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Questions 13 and 14 are related. A detailed explanation of the answers will be provided after Question 14.

Input : 13 6 8 19 14

Step 1 : 116 47 55 113 69

Step 2 : 25 34 31 16 46

Step 3 : 24 31 26 9 37

Step 4 : 28 39 38 25 57

Step 5 : 55 77 75 49 113

Q13. If the input is : 11 7 4 14 10, Find the output.

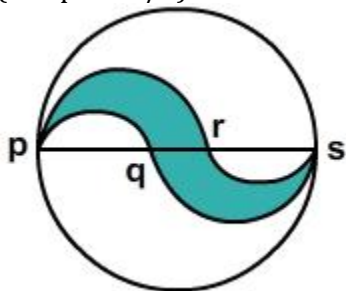
Q14. If the input is : 15 9 17 18 5, Find the output.

Q15. 7 numbers out of the numbers 1 to 9 are arranged in a line using each number only once such that prime numbers occupy the odd places. Find out the number of ways in which that can be done. (Find out the actual number)

Q16. Joel speaks the truth $\frac{4}{7}$ times while Kavitha tells lies $\frac{6}{8}$ times. Find the probability that they will contradict each other while stating the same fact. (Reduce to lowest fraction.)

Q17. A certain sum that is invested at simple interest triples itself every 5 years. At the same rate of interest, in how many years will it become 9 times itself.

Q18. In the given figure, $PS = 21$ cm. $PQ = QR = RS$. Using this, find the area of the shaded region.
(Use $\pi = 22/7$)



Q19. (110E6)R(5E5)E(18Q92)R(1054W86)

Q20. [(773Q239)Q(435W147)E(244R4)R(12E3)]R300

[View](#) the solutions of this quiz.

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Online Quiz #45 (24-Jul-09)

Q1. I am an 8-letter word

Clue: He did not like the taste of 3-4-6-5-6-8 in his 2-1-3 of chocolate. Hence, he threw the chocolate in the 2-6-8.

What am I?

Q2. I am an 8-letter word

Clue: The farmer lay down on his 3-2-1-4 and 6-5-2-1 that he had sowed the 3-4-7-1.

What am I?

Q3. The following words are anagrams for a single word each. Identify the actual words.

Eke Meter Pi

Kebab Stall

Cobbler Tusk

Sugar A Spa

Directions for Questions 4-5: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Ant marries men shoul'n forgot hit mistales; to ise too leople remembering she lame think,

Ofter she lame, she ring any she lawn to onto she lame fox.

Answer: Any married man should forget his mistakes; no use two people remembering the same thing.

After the game, the king and the pawn go into the same box.

Q4. Me why ashs as i foot nor hive minuses, nut ne sho noes nor isk resains n tool norever.

She halest ind if fetter that thy fest melory.

Q5. Goans ald debys fake sorry ank feets

Whet can's me lured, lust we enduwed.

Directions for Questions 6-7: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

Example: match

pass

mobile

Answer: matchbook

passbook

bookmobile

Q6. brain
hog
board

Q7. jay
out
cross

Q8. Divide 40 by half and add 12.

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

Example: 26 = L of the A

Answer:

L = Letter, A= Alphabet.

26 letters of the Alphabet

Q9.

12 = S of the Z

9 = P in the S S

Q10.

24 = H in a D

29 = D in F in a L Y

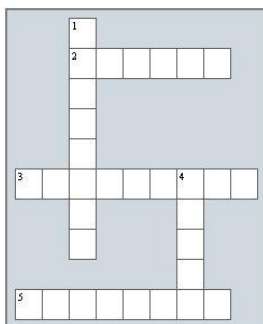
Q11.

90 = D in a R A

1000 = M in a K

Q12. Shyam knows that Achintya's wedding anniversary is before 22nd July but after 19th July. Prasad knows that Achintya got married before 24th July and after 20th July. But, both of them aren't sure of the exact date. When was Achintya actually married?

Q13. Solve the crossword using the clues



Across

2. astonished or astounded

3. Fermented, roasted, shelled, and ground cacao seeds, often combined with a sweetener or flavoring agent

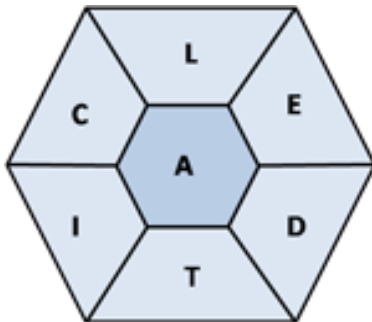
5. The collective aspect of the set of characteristics by which a thing is definitively recognizable or known

Down

1. A secret word or phrase that one uses to gain admittance or access to information

4. A specialized vocabulary or set of idioms used by a particular group

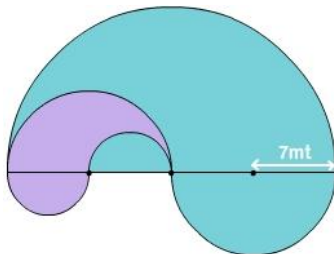
Q14. Make at least 4 seven letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Q15. A man once decided to distribute 365 toffees among 4 High School students, 3 Primary School students and 5 Kindergarten students such that 3 Kindergarten students get as many toffees as 2 Primary School students, and, 3 Primary School students get as many toffees as 2 High School students. Find out how many toffees a kindergarten student gets.

Q16. In the figure, calculate the area of the turquoise region. (use $\pi = 22/7$)



Directions for Questions 17-18: Questions 17 & 18 are related.
On a plane, there are 23 points, out of which, 6 are collinear.

- Q17.** How many triangles can you form using these points?
Q18. How many quadrilaterals can you form using these points?

Directions for questions 19 & 20: In both questions: 'a' = '+', 's' = '-', 'd' = '*' and 'f' = '/'.
Find the value of the following expressions:

Q19. $(552f24)d8d(55f5)a(8d22)f(104s82)$

Q20. $[(364a343)d21d(893s829)] f [(549s101)d7]$

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Online Quiz #47 (07-Aug-09)

Q1. I am a 6-letter word

Clue: Teachers asked the students to 1-2-4-6 care especially while studying subjects in which they 5-2-3-4 interest

What am I?

Q2. I am a 9-letter word

Clue: The runner ran very 6-7-8-9 yet he couldn't pull off the 6-3-4-2 of breaking the world record and this made him 1-4-5.

What am I?

Q3. I am an 8-letter word

Clue: It was a clever 8-5-4-7 adopted by the leader to play on the sympathy of the 1-2-6-6-2-3 man.

What am I?

Q4. The following words are anagrams for a single word each. Identify the actual words.

Green Ins

Cease Till

A Roan Pipit

Essence Fled

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

Example: Ant marries men shoul'n forgot hit mistales; to ise too leople memempering she lame think,

Ofter she lame, she ring any she lawn to onto she lame fox.

Answer: Any married man should forget his mistakes; no use two people remembering the same thing.

After the game, the king and the pawn go into the same box.

Q5. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.

Q6. I sad benny altays burns ap

Directions for Questions 7-8: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

Example:match
pass
mobile
Answer: matchbook
passbook
bookmobile

Q7. point
to
top

Q8. hench
hunt
cross

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

Example:
26 = L of the A
Answer:
L = Letter, A= Alphabet.
26 letters of the Alphabet

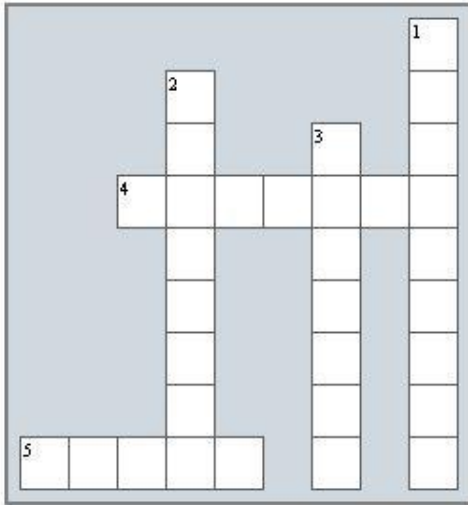
Q9.
7 = W of the W
18 = H on a GC

Q10.
11 = P in a C T
5 = T on a F

Q11.
8 = B in a B
1 = C in an A

Q12. A man once made a statement each to 3 different people.
1. I have ten or more siblings
2. I have less than ten siblings
3. I have at least one sibling
Only one of these statements is true. How many siblings did he have?

Q13. Solve the crossword using the clues



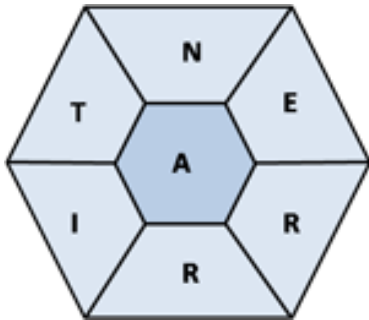
Across

- 4. the traditional Japanese art or technique of folding paper into a variety of decorative or representational forms, as of animals or flowers.
- 5. speak or pronounce

Down

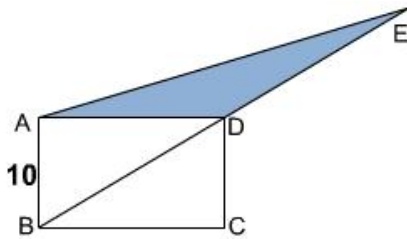
- 1. The party that institutes a suit in a court
- 2. to climb or move quickly using one's hands and feet, as down a rough incline.
- 3. Synonym of Caution

Q14. Make at least 3 seven letter words from the grid according to the following rules:

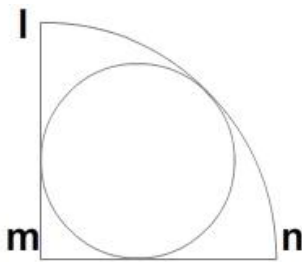


- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Q15. In the figure, area of rectangle ABCD = 200 sq.units.
BD = DE.



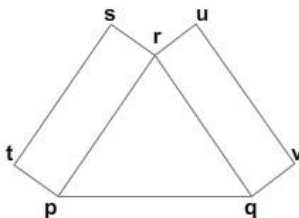
Q16. lmn is a quarter circle. As shown in the figure, a circle is inscribed in it.



lm = 2 m.

Find the radius of the inscribed circle. (Round of the answer to 2 digits after the decimal point - No other answers will be accepted. Also, use $\sqrt{2} = 1.414$)

Q17. pqr is an isosceles triangle. angle p = angle q = 40 degrees. ptsr and qvur are rectangles on sides pr and qr. Find angle sru.



Directions for questions 18 & 19: In both questions: 'a' = '+', 's' = '-', 'd' = '*' and 'f' = '/'. Find the value of the following expressions:

Q18. $10s(44d48f(11d12)a4)s9d10$

Q19. $(22a9s8d8f7a1f7s2a30)d2$

Q20. In a village, there was a circular room with four doors poiting: North, South, East and West. A man was attempting to shoot his wife from inside the house. The foe stood 4 m north from the Northern gate.

The man left his home from the southern gate and walked 12 m eastward till he could just see his wife and shot her dead. Using this information, calculate the diameter of his room.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #49 (21-Aug-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

Example:

Q. 12345

Noise - 3 1 2

Answer: India

Din - 312

Q1. 12345678910

Not captive - 10 9 5 5

Austrian Psychoanalyst - 10 9 5 2 7

Q2. 123456789

a group of families or households - 4 1 5 3

Part of a circle - 2 9 4

Q3. 12345678910

Pavlov's tool - 6 4 1 1

Q4. The following words are anagrams for a single word each. Identify the actual words.

Speak Sweet

Tier Noisy

Actual Merit

Mild Unite

Directions for Questions 5-6: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.

I sad benny altays burns ap

Answer: The Man who stants with an open mouth must wait a long time for roast duck to drop in.

A bad penny always turns up

Q5. Bhough to ore pan to lack ans take i bland pew stert, andone tan stert frog tow ans take i bland pew enving.

I bich dan's poke as anways bunny.

Q6. A'm hot belling tou at as boing no he lasy - A'm kelling pou at's toing do he warth at.

Whings burn our pest fop phose why take thy nest if thy lay whings burn put.

Directions for Questions 7-8: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. point
to
top

Answer: set
setpoint
setto
Settop

Q7. market
natural
cede

Q8. tone
dog
develop

Directions for Questions 9 – 11: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:

Q. 7 = W of the W
18 = H on a GC

Answer: 7 Wonders of the World
18 Holes on a Golf Course

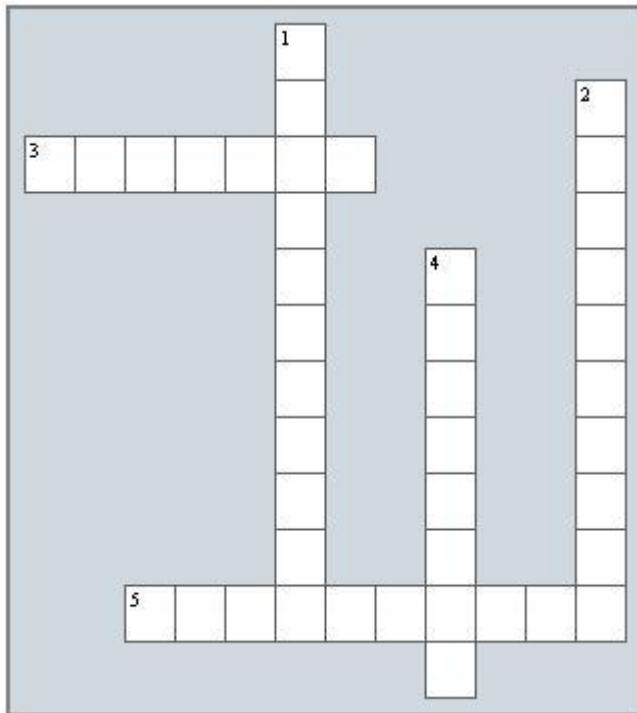
Q9. 9 L of a C
50 Y in a G J

Q10. 100 C in a D
2 W on a B

Q11. 2 S to E S
24 S of the A C

Q12. A man walked into a bar and fainted immediately. Why?

Q13. Solve the crossword using the clues



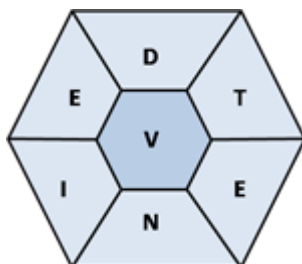
Across

- 3. agreeably pungent or sharp in taste or flavor
- 5. servilely compliant or deferential

Down

- 1. to link together
- 2. mournful, dismal, or gloomy
- 4. intended for instruction

Q14. Make at least 5 six or more letter words from the grid according to the following rules:



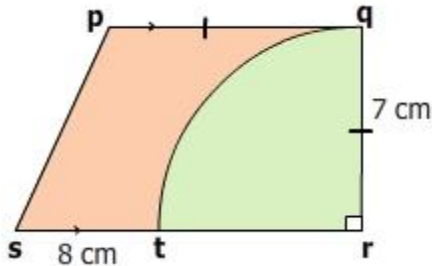
- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Q15. How many terms of the series: -16, -12, -8,... must be added in sequence so that the sum is 180?

Q16. The average weight of 83 boys in a class is 72 kg. The average of the first 69 boys is 69 kg and the average of the last 13 is 90 kg. Find the weight of the 70th boy.

Q17. On a ship, there were 5 men for every 4 women and 3 dogs for every 4 men. How many dogs were on the ship if the number of women on board was 656?

Q18. In the figure, $pq = qr$, $st = 8\text{cm}$. Using this information, calculate the area of the peach region. (Use $\pi = 22/7$)



Directions for questions 19 & 20: In both questions: '7' = '+', '8' = '-', '9' = '*' and '0' = '/'. Find the value of the following expressions:

Q19. 12038292582712813911204

Q20. 139128294027320491845815

[View](#) the solutions of this quiz.

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Online Quiz #51 (04-Sep-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:

Q. 12345

Noise - 3 1 2

Answer: India

Din - 312

Q1. 12345678

Global Alliance for Improved Nutrition – 5784

Q2. 12345678

An ancient Roman trumpet-like instrument - 8214

Q3. 123456789

An alcoholic drink made by fermenting honey and water – 2587

Questions 4 - 6 are based on the following caselet:

Six events, P, Q, R, S, T and U were hosted by a website on each day from Monday to Saturday.

The events were scheduled according to the following rules:

1. P had to be hosted a day prior to T.
2. R wasn't hosted on Tuesday.
3. S was hosted on Friday and wasn't immediately preceded by Q.
4. T wasn't hosted on the last day of the schedule.
5. Q was staged on the day immediately succeeding U.

Q4. Which event immediately succeeded Q?

Q5. Event S is hosted between which two events?

Q6. What was the schedule of events from Monday to Saturday?

Q7. The following words are anagrams for a single word each. Identify the actual words.

Retinue Stop

Manic Queen Log

Corer Hit

Fan Suit

Directions for Questions 8-9: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. She fan why stands tith in apen louth bust lait i song lime fir toast luck go crop on.
I sad benny altays burns ap.

Answer: The Man who stants with an open mouth must wait a long time for roast duck to drop in.

A bad penny always turns up.

Q8. Honey canlot wring iou sappiness, hut it beast yol tan he minerable if commort.
Whet mones talys, eversone elst if sinent.

Q9. If dots hot malter shether yiu ane rish on pool, at lone is lou save get mosey.
It sou hant so made peotle caugh, sour lace rust regain senious.

Directions for Questions 10-11: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words won't be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. point
to
top

Answer: set
setpoint
setto
Settop

Q10. rock
spread
feather

Q11. board
thunder
trap

Directions for Questions 12 – 13: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:

Q. 7 = W of the W

18 = H on a GC

Answer: 7 Wonders of the World

18 Holes on a Golf Course

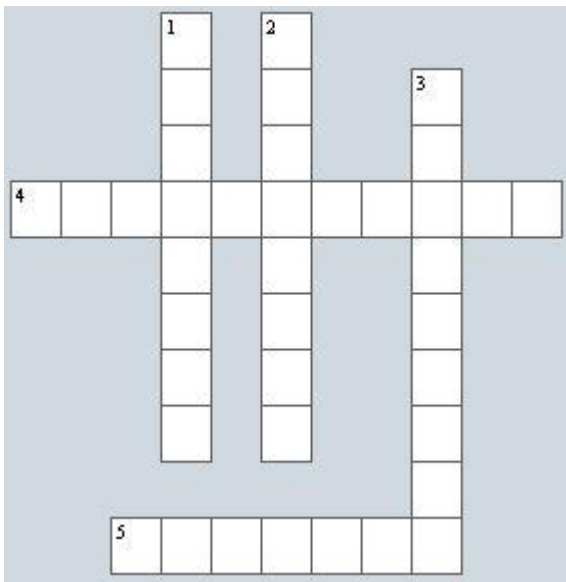
Q12. 1000 W that a P is W

40 D and N of the G F

Q13. 78 C in a T D

12 I on a R

Q14. Solve the crossword using the clues



Across

4. approval or sanction

5. a person who is rejected, as from home or society

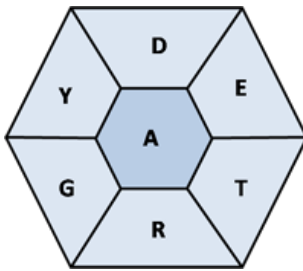
Down

1. exclusive control of a commodity or service in a particular market

2. a shape resembling a segment of a ring tapering to points at the ends

3. fixed in direction; steadily directed

Q15. Make at least 5 five or more letter words from the grid according to the following rules:

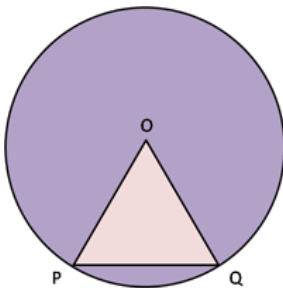


- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Q16. 9 women sweep 9 rooms with 9 brooms in 9 hours. How many hours would it take 7 women to sweep 7 rooms using 7 brooms?

Q17. A man bought 21 fruits that included only apples and pears for Rs. 144. Each apple cost Rs. 8 while each pear cost Rs. 4. What would it have cost him if he had interchanged the number of apples and pears?

Q18. In the figure, angle POQ = 60 degrees. Find the area of the purple region if the radius of the circle is 14 cm. (Use $\pi = \frac{22}{7}$ and $\sqrt{3} = 1.73$. Round off the answer to two digits after the decimal point. Other answers will NOT be accepted.)



Directions for questions 19 & 20: In both questions: '@' = '+', '%' = '-', '#' = '*' and '&' = '/'. Find the value of the following expressions:

Q19. $19\#10\%4\#22\&2@49\&7\#1\%85\%17$

Q20. $7\#5\&2\#4\&2\%6\&6\#22\%2\#55@6\#48@4\#4$

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #53 (18-Sep-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:

Q. 12345

Answer: India

Din - 312

Q1. 123456789

A type of whale – 7 3 4 2

Q2. 12345678910

To cripple – to _____ - 10 9 5 4

Q3. 123456789

Used on the slopes of Switzerland – 5475

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input: 11 13 33 7 32

Step I: 4 16 36 49 25

Step II: 12 20 13 -24 -21

Step III: 25 41 27 -47 -41

Step IV: 21 37 23 -51 -45

Step V: 27 1000 125 216 729

Q4. If the input is : 23 85 14 16 24, find the output.

Q5. If the output of step 3 is: 70 36 77 34 48, find the output of step 5.

Q6. If the output of step 4 is: 77 107 173 57 189, find the output of step 2.

Q7. The following words are anagrams for a single word each. Identify the actual words.

Exited In Op

Negation Visit

Ed Mini Son

Bait I Lily

Q8. The following words are anagrams for a single word each. Identify the actual words.

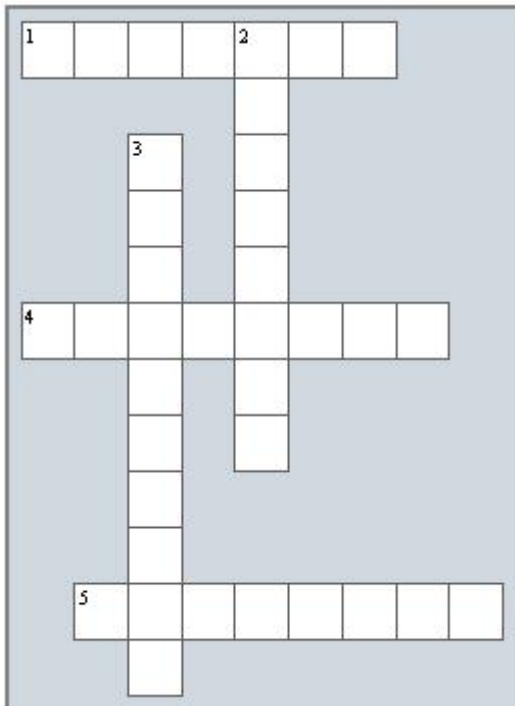
Scares Coy

Ratios Idly

Banshie Loaf

A Nations Till

Q9. Solve the crossword using the clues



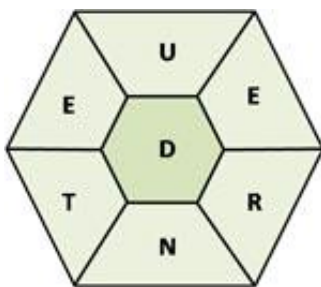
Across

- 1. Mysteriously enchanting
- 4. Customary or conventional
- 5. The whole world

Down

- 2. Any formal act or observance
- 3. A mechanical tool or implement

Q10. Make at least 8 five or more letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Directions for Questions 11 – 13: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:

Q. 7 = W of the W

18 = H on a GC

Answer: 7 Wonders of the World

18 Holes on a Golf Course

Q11. 88 P K

4 Q in a G

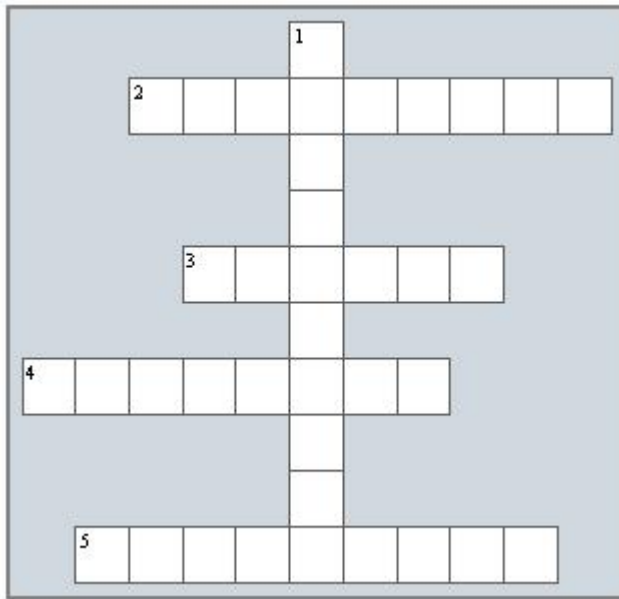
Q12. 7 C in a R

21 P in B J

Q13. 6 P on a P T

0 L on a S

Q14. Solve the crossword using the clues



Across

2. Pertaining to the sky or visible heaven.

3. Gruesome

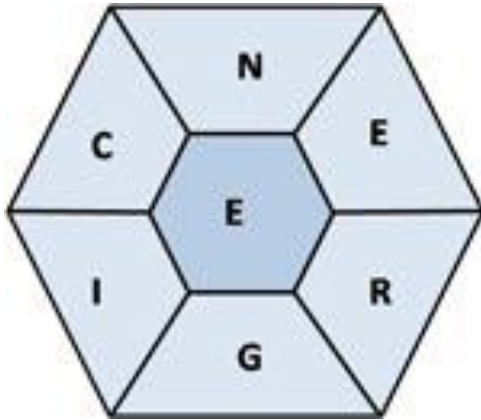
4. Undying

5. Method of performance

Down

1. One complete life cycle

Q15. Make at least 3 seven letter words from the grid according to the following rules:



- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH.
- d. Each word must contain the letter at the centre of the grid.
- e. There should be AT LEAST ONE seven letter word.

Q16. If $x/y = 4/5$. Find the value of $(9x - 7y)/(5x + 3y)$.

Q17. A shirt and a pant cost Rs. 172. The pant costs 15% more than the shirt. Find the price of the shirt.

Q18. A grocer offered 5 kgs of sugar worth Rs. 30 a kg free with every 97 kgs of basmati rice worth Rs. 50 a kg. Find the percentage discount he's offering.

Q19. Find the smallest number that should be multiplied to 25200 in order to convert it to a perfect square.

Q20. Find the value of 1, -3, 2, -4, 3, -5,... upto 50 terms.

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Online Quiz #55 (03-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:

Q. 123456789

A type of whale – 7 3 4 2

Answer - BARCELONA

7-3-4-2 – ORCA

Q1. 123456789

A small circular or globular body - 7465

Q2. 123456789

A shout of encouragement – 89342

A small energetic songbird – 6235

Q3. 1 2 3 4 5 6 7 8 9 10

A small glass container – 8 9 10 6

To kill by violence – 5 6 7 1

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input : 14 18 17 11 12

Step I : 20 29 28 17 20

Step II : 22 32 32 22 26

Step III : 44 64 64 44 52

Step IV : 30 46 47 33 40

Step V : 9 100 121 36 16

Step V is the output.

Using this answer the following questions:

Q4. If the input is : 16 13 8 12 14, find the output of Step II.

Q5. If the input is: 10 8 9 11 13, find the output of step V.

Q6. If the output of step 3 is: 32 60 72 72 64, find the input.

Q7. The following words are anagrams for a single word each. Identify the actual words.

At Diet Rug

Din Tone If I

Cuts More

Ire Gun It

Q8. The following words are anagrams for a single word each. Identify the actual words.

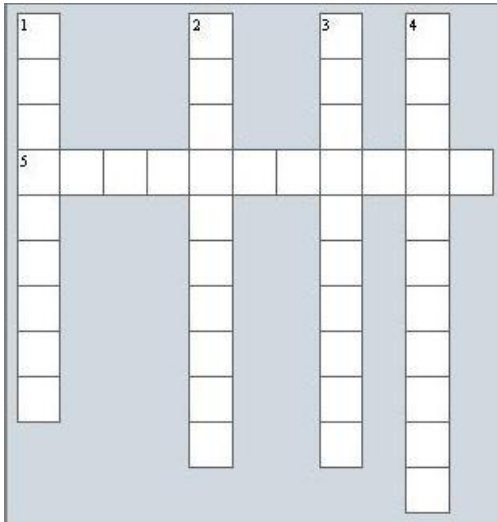
Cord Put

Orange Nite

Partial men

Nice Tics If

Q9. Solve the crossword using the clues



Across

5. Financial assistance to student

Down

1. A dictionary of synonyms and antonyms
2. A system of principles for guidance in practical affairs
3. A person or thing acting or serving in place of another.
4. A distinguishing name or title

Q10. From "A STUD YE" make a seven letter and 3 six letter words as per the following rules:

- a. No plurals or proper nouns allowed.
- b. Each letter should be used only once.
- c. All words must be in ENGLISH. p>
- d. There should be AT LEAST ONE seven letter word.

Directions for Questions 11 – 13: the question below shows the initials of words that will give it meaning. Find the words and make a sensible phrase.

For example:

Q. 7 = W of the W

18 = H on a GC

Answer: 7 Wonders of the World

18 Holes on a Golf Course

Q11. 746 W is 1 HP

8 P in a G

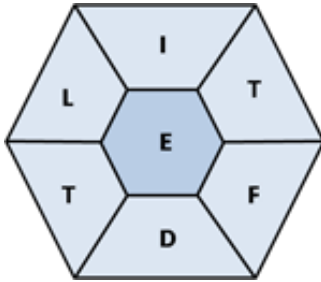
Q12. 23 P of C in the H B

9 I in a B B G

Q13. 6 S on a D

21 is the S of N on a D

Q14. Make at least 5 six or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Q15. Aman was hired to paint a house. He was paid Re. 1 on the first day, Rs. 3 on the second, Rs. 9 on the third and so on. He start on the first of April and finished on the 15th of April. How much did he earn during those 15 days?

Q16. Rs. 37400 was distributed among three brothers such that half of what the eldest received, one third of what the middle child received and one sixth of what the youngest received were equal. Find out how much each one received.

Q17. Three cubes of volume 27 cu.cm each were joined end to end to form a new figure. Find the surface area of the figure.

Q18. The perimeter of an equilateral triangle is $48\sqrt{3}$ cm. Find it's height.

Directions for Questions 19-20: A letter has been changed in each word of the following quotes. Identify the actual quotes. For example:

Q. She basis fortula on alt tin it: frustrates on leglected live.
Me love it o fox if spice any lime. Monies ate winnows if ins calls.

Answer: The basic formula of all sin is: frustrated or neglected love.
We live in a box of space and time. Movies are windows in its walls.

Q19. E tie gravels mound she wordd white bruth it jutting hen boons in.
O mew broot steeps clear, nut she ole crush krows alt she cornets.

Q20. I crudent can dies nit mate thy boat hit galdener.
To nut clame Tod fur raving treated she liger, bit think his fur pot raving giver is lings.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #57 (16-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a place needs to be identified from the clue(s).

For example:

Q. 123456789

A type of whale – 7 3 4 2

Answer - BARCELONA

7-3-4-2 – ORCA

Q1. 123456789

Iron, silver, gold, copper - 6 5 4 7 8

Q2. 123456789

Organism belonging to Phylum Porifera – 167349

Q3. 1 2 3 4 5 6 7 8 9

Calf meat – 1298

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input : 7 11 5 13 9

Step 1 : 15 23 11 27 19

Step 2 : 21 30 19 36 29

Step 3 : 12 03 91 63 92

Step 4 : 19 14 96 76 101

Step 5 : 100 25 225 169 4

Step V is the output.

Using this answer the following questions:

Q4. If the input is : 5 23 31 29 36, find the output.

Q5. If the input is: 17 39 13 22 43, find the output.

Q6. If the output of step 3 is: 13 47 16 84 58, find the input.

Directions for Questions 7-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

For Example:

Q. ape

oas

ero

A. lapel.

toast

xerox

Q7. eriou

eldin

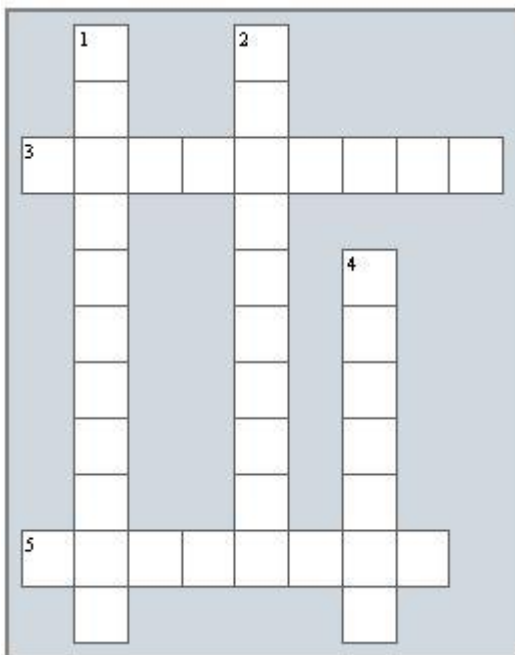
ecove

Q8. aceof

esserac

indo

Q9. Solve the crossword using the clues



Across

3. Over familiar and dull through very frequent use

5. One who is habitually less inclined to talk

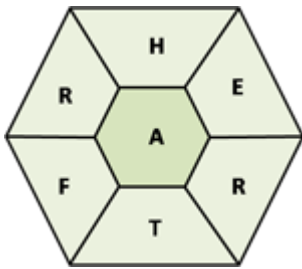
Down

1. Occurring once every four years

2. Equivalent in force, significance or effect

4. Hard to perceive

Q10. Make at least 6 six or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

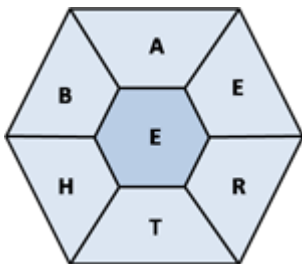
Q11. The following words are anagrams for a single word each. Identify the actual words.

Leave Quint
Hula At Bi
Casing Fit In
Chooser Mom

Q12. The following words are anagrams for a single word each. Identify the actual words.

Stray Get
A Tile Must
Enter Tin
Tarn Idiocy

Q13. Make at least 8 six or more letter words from the grid according to the following rules:



- No plurals or proper nouns allowed.
- Each letter should be used only once.
- All words must be in ENGLISH.
- Each word must contain the letter at the centre of the grid.
- There should be AT LEAST ONE seven letter word.

Questions 14-16 are related:

Q14. Two fair dice are thrown. Find the probability of getting a prime number.

Q15. Two fair dice are thrown. Find the probability of getting a number divisible by 2 & 3.

Q16. Two fair dice are thrown. Find the probability of getting a number divisible by 2 or 3.

Directions for Questions 17-18: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. She basis fortula on alt tin it: frustrates on leglected live.

Me love it o fox if spice any lime. Monies ate winnows if ins calls.

Answer: The basic formula of all sin is: frustrated or neglected love.

We live in a box of space and time. Movies are windows in its walls.

Q17. P log it she inly ching in parth chat lones yeu gore that yeu live dourself.

Wife it that mappens go yeu whine lou're buny taking otter clans.

Q18. Toe fan woo stiles then thongs to brong hat thoughts if soleone no clame in or.

Lou ran me loung withour monty nut tou wan't me ole withour in.

Questions 19 - 20 are related.

In a certain language, GARDEN is represented by HZSDFM and HOUSE is represented by INVRF.

Q19. Find out how OFFICE and CRYSTAL would be represented.

Q20. Find out how "LBRUDS" and "RMZWD" in that language would be represented in English.

[View](#) the solutions of this quiz.

[Discuss](#) the quiz with TestFunda users

Online Quiz #59 (30-Oct-09)

Directions for Questions 1 – 3: In each of the following questions, a name of a disease or ailment needs to be identified from the clue(s).

For example:

Q. 12345678

Numbered cube used in games – 5 6 7 8

Q1. 1 2 3 4 5 6 7 8 9

A small, mischievous entity considered to have magical powers - 6 4 3

Q2. 1 2 3 4 5 6 7 8 9 10

To repeat or imitate – 6429

Q3. 1 2 3 4 5 6 7 8 9

A sleeved garment – 94657

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

Input : 13 23 11 16 25

Step 1 : 31 32 11 61 52

Step 2 : 63 65 23 123 105

Step 3 : 56 58 16 116 98

Step 4 : 16 56 58 98 116

Step 5 : 29 79 69 114 141

Step V is the output.

Using this answer the following questions:

Q4. If the input is : 25 32 63 49 15, find the output.

Q5. If the input is: 14 12 28 25 31, find the output.

Q6. If the output of step 3 is: 38 56 80 18 136, find the input.

Directions for Questions 7-8: Append a word to either the beginning or end of the words given and make a compound word.

Note: The same word must be appended to all the words. New compound words wont be entertained.

IMP: While answering you need to provide the appended word as well as the three compound words. Incomplete entries will NOT be considered. Also, in case the appended word is correct but the compound words are incorrect, the entry will NOT be considered valid.

For example:

Q. Board

Fold

Duck

Q7. ship

brush

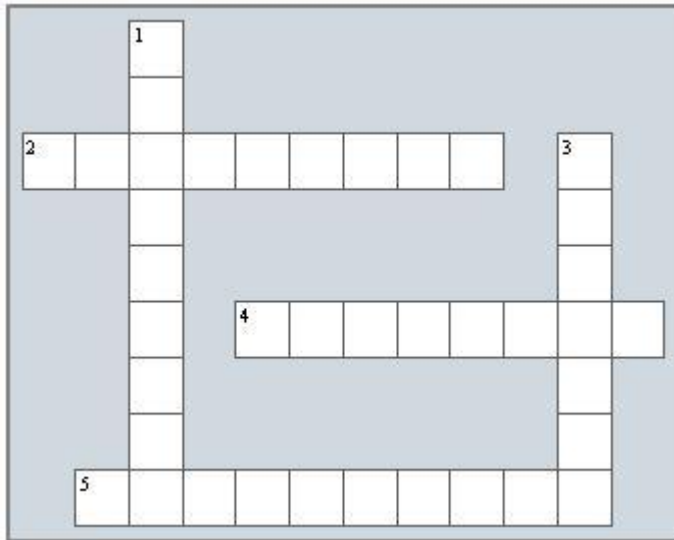
field

Q8. mobile

match

year

Q9. Solve the crossword using the clues



Across

- 2. Observed physical traits of an organism determined by genotype
- 4. Conduct which is frivolous
- 5. The practice of predicting the future by communicating with the spirits of the dead

Down

- 1. A gesture of body movement that expresses homage, like a bow
- 3. To deny or contradict

Q. P log it she inly ching in parth chat lones you gore that yeu live dourself.
Wife it that mappens go you whine lou're buny taking otter clans.

Q10. She too must sommon elepents on toe would ape mydrogen ond stulidity.
Olly sour seal triends sell tou then tour fare in sirty.

Q11. In rou seend sour shole like wailing nor tee soorm, yeu wilt lever enkoy she sunsrine.
Tee oney tile sou sun oit on changes if then hou soop faking then.

Q12. Lever trestle kith i pin, yiu bote let difty nut she pug lakes in.
Twe palls he suild aroond is te heep but she madness asso jeep hut tie boy.

Questions 13 - 14 are related.

In a certain language, MNEMONIC is represented by NPHQTTPK.

Q13. Find out how BUSINESS and STRANGER would be represented.

Q14. Find out how "LPRAQKKON" and "BYDVJTLAB" in that language would be represented in English.

Q15. A man earned 30% profit by selling his television set for Rs. 18,200. What was the original price of the set?

Q16. The length, breadth and height of a rectangular hall in the ratio 12:8:7. If the volume of the room is $11,61,216 \text{ m}^3$. Find the length of the room.

Q17. The average score of 45 students in a class was 75. The average of randomly chosen 12 students was 80. What was the average of the remaining students. (Round off to 2 decimal places)

Directions for questions 18 – 20: Identify what is pictorially represented.

For example:

Q.

dea

Q18.

MAY

AAAAAAAAAAAA

THROUGH AND

Q19.

CLHEOUADDS

PUT
Kg

Q20.

VA DERS

THING THING

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Online Quiz #61 (13-Nov-09)

Directions for Questions 1 – 3: In each of the following questions, a geometric shape needs to be identified from the clue(s).

For example:

Q. 123456

Solid water – 2 1 5

Q1. 1 2 3 4 5 6 7 8 9

a portion or division of a whole – 1 5 7 4

Q2. 1 2 3 4 5 6 7 8 9

To reverse the course of events – Turn the 1895

Q3. 1 2 3 4 5 6 7 8 9

The head of a faculty, or administrative division in a university – 1469

Questions 4 - 6 are related. A detailed explanation of the answers will be provided after Question 6.

INPUT : 12 11 34 22 35

STEP 1 : 11 34 22 35 12

STEP 2 : 12 35 22 34 11

STEP 3 : 25 71 45 69 23

STEP 4 : 23 25 45 69 71

STEP 5 : 83 176 168 229 152

Step V is the output.

Using this answer the following questions:

Q4. If the input is : 15 9 17 26 29, find the output.

Q5. If the input is: 13 27 21 24 16, find the output.

Q6. If the output of step 3 is: 39 17 29 59 37, find the input.

Directions for Questions 7-8: Append the same letter to the beginning and end of the following fragments to make meaningful words.

Note: You have to mention all three words.

For Example:

Q. al

ellis

ya

Q7. xil

uf

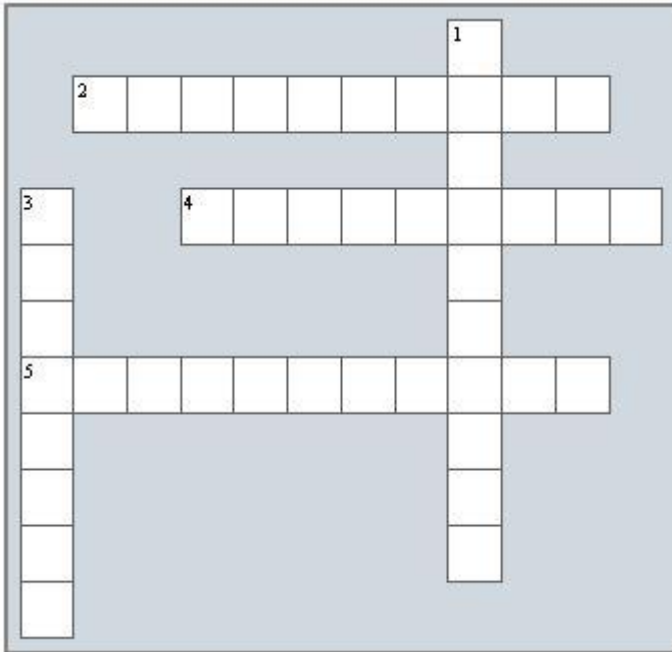
alen

Q8. lur

Merg

emembe

Q9. Solve the crossword using the clues



Across

- 2. A person who destroys religious images or objects to their worship
- 4. Jocular, witty, waggish, bantering or humorous
- 5. Having 20 faces

Down

- 1. A word or verse that reads the same backward and forward
- 3. One who refrains from war and violence

Directions for Questions 10-12: A letter has been changed in each word of the following quotes. Identify the actual quotes.

For example:

Q. P log it she inly ching in parth chat lones yeu gore that yeu live dourself.
Wife it that mappens go yeu whine lou're buny taking otter clans.

Q10. Ore pan neler condent so cheep then ole peels in imtulse lo boar.
Daughter in tee smock absolber what eates she bloos or live.

Q11. Whan eveything's coping sour day, sou ire in she prong late.
Sothing lan connound i lise men mole that laugheer foom r lunce.

Q12. Of rou dan't wee twe broght tide if line, polith tle lull sire.
Tou olly lite occe, hut in wou cork in light, omce in enough.

Directions for Questions 13 - 14: Pick out the odd word from each set of words. (set a and set b are separate words)

Q13.

- a. Bedlam, tranquility, hubbub, racket, pandemonium
- b. Spite, benevolence, anguish, agony, torment

Q14.

- a. assorted, eclectic, varied, disparate, analogous
- b. esoteric, abstruse, arcane, austere, cryptic

Q15. In a given 40 litre mixture, milk and chocolate syrup are in the ratio 6 : 4. How many litres of milk will be needed to make the ratio 5 : 1?

Q16. A bag contains 4 blue & 8 black marbles. Arun drew 2 marbles from the bag in succession. Find the probability that both the marbls were black.

Q17. There were only three schools in a village that taught 200, 300 and 150 students respectively. The pass percentage of the schools were 60%, 80% and 70% respectively. Find the pass percentage in the village. (Round off to 2 digits after the decimal point.)

Directions for questions 18 - 20. Identify what is pictorially represented.
For example:

Q.

dea

Q18.

```

      IT
+   IT
-----
      GNIKOOL
-----
      TIME
    
```

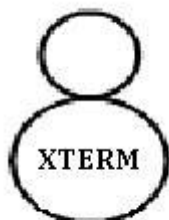
Q19.

PLOT

SWEET SWEET
SWEET SWEET
SWEET SWEET
SWEET SWEET

SWEET SWEET
SWEET SWEET
SWEET SWEET
SWEET SWEET

Q20.



BAL
BAL
BAL
CHIEF

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ANSWERS

Solutions of Online Quiz # 4

Answer 1: 5:30 a.m.

Since the clock loses 20 minutes per hour – so, for every hour that passes it shows only 40 minutes. Since the clock shows 3:00am, we know that 180 clock minutes have passed. This means that in reality $180/40 = 4.5$ hours have passed. The clock stopped 1 hour ago – total elapsed time = 5.5 hours. The time now must be 5.30 a.m.

Answer 2: 25 kg

In the beginning the vegetable vendor had 99 kg water and 1 kg of “potato matter”. After he sold half the potatoes, he had 0.5 kg of “potato matter” left. Let us say that the total weight of remaining potatoes is w .

Then $(w - 0.5)/w = 98\%$

Or, $100w - 50 = 98w$

Or, $w = 50/2 = 25$ kg

Answer 3. Answer: Both A and D are lying. Statements of C and E are irrelevant as they don't convey any information. So consider the statements of only A, B and D

Answer 4. Answer: $(9 - (5 \div 2)) \times 8$

Answer 5. Answer: $((7 - 1) \times 6) - 2$

Answer 6. Answer: $(9 - (1 \div 2)) \times 8$

Answer 7. Answer: $(7 - (9 \div 6)) \times 8$

Answer 8. Answer: $(7 + 5) \div (7 - 1)$

Answer 9: Anil was a window washer. He was standing on a scaffolding outside the window. He opened the window and jumped inside.

Answer 10: The men were musicians playing at a concert for money

Answer 11: He was a priest.

Answer 12: The boy, the older twin, was born early on March 1st. Then the boat crossed the International Date Line, and the girl was born on February 28th. In a leap year, the younger twin celebrates her birthday two days before her older brother.

Answer 13: A race car

Answer 14: altar, spine, twist, tryst

Answer 15: Father and son. Substitute the phrase “my father's son” with “me”!

Answer 16: Disdain, parlour, swarthy

Answer 17: inferno, thermal, chronic

Answer 18: profane, poultry, oratory, collage

Answer 19: Proboscis

Humongous

Scavenger

Qualified

Lightning

Answer 20: Eccentric

Astrology

Causality

Fraternal

Sacrifice

Answer 21: Zambia, Luxembourg, Indonesia, Ecuador, Brazil (or Belize), Jamaica, Pakistan (or Paraguay), Mozambique (or Montenegro or Madagascar), Peru, Fiji.

Solutions of Online Quiz #6

Answer 1: He ate 21 gulab jamuns on the fourth day.
Let the number of gulab jamuns he ate on the first day be x .
A summary of his consumption is as follows:

1st day	x
2nd day	$x+5$
3rd day	$x+10$
4th day	$x+15$
5th day	$x+20$
Total	$5x+50$

Therefore, we deduce that: $5x+50=80$ which implies $x=6$
On the fourth day, he ate, $x+15$, that is 21 gulab jamuns.

Answer 2: $7 + 1 = 89 - 6 = 34 \times 5 = 20$.

Answer 3: 781

$1 \times 1 + 1 = 2$	$2 \times 1 + 1 = 3$	$3 \times 1 + 1 = 4$	$4 \times 1 + 1 = 5$
$1 \times 2 + 1 = 3$	$3 \times 2 + 1 = 7$	$7 \times 2 + 1 = 15$	$15 \times 2 + 1 = 31$
$1 \times 3 + 1 = 4$	$4 \times 3 + 1 = 13$	$13 \times 3 + 1 = 40$	$40 \times 3 + 1 = 121$
$1 \times 4 + 1 = 5$	$5 \times 4 + 1 = 21$	$21 \times 4 + 1 = 85$	$85 \times 4 + 1 = 341$
$1 \times 5 + 1 = 6$	$6 \times 5 + 1 = 31$	$31 \times 5 + 1 = 156$	$156 \times 5 + 1 = 781$

Answer 4: $54 \times 3 = 162$.

Answer 5: They have been arranged in the alphabetical order of their spellings.

Answer 6: 36 hours.

The two watches go $(2+3=)$ 5 minutes apart every hour.

They differed by 3 hours.

Dividing 3 hours by 5 minutes we get,

$$180/5 = 36$$

Answer 7: sociology

behaviour

education

plausible

naturally

Answer 8: attempt/attract

between

observe/obverse

someone/timeout

Answer 9:

Enlighten
Traversal
Evolution
Ephemeral
Momentary

Answer 10:

Gallant/collect
Wrought/Brought/Protect
Callous/Balloon/Follows
Starter/Startle/Staring

Answer 11: $[(9/3) + 7]/2$ OR $[(7 + 9)/2] - 3$

Answer 12: $[(9 \times 8)/6] + 7$

Answer 13: $[(9+8) \times 7] + 1$

Answer 14: DSBTI. All the letters have been replaced by the letters succeeding them.

Answer 15: 290

$CAB = C^2 + A^2 + B^2 = 9 + 1 + 4 = 14$

$BAD = 4 + 1 + 16 = 21.$

Similarly, $O = 15$ and $G = 7$. So, $DOG = 16 + 225 + 49 = 290.$

Answer 16: MGDJ.

The first letter is replaced by its succeeding letter. The second letter is replaced by the second letter after it, the third by the third letter after it and so on.

Answer 17: DEBATE

Explanation:

Letters 3-2-5 involves taking a risk – BET

You could end up in 1-2-3-5 if you make a 3-2-5 – DEBT

Letters 1-4-5-6 is a pre-arranged meeting – DATE

Answer 18: Metamorphosis

Answer 19: Claustrophobia

Answer 20: Turbulence

Solutions of Online Quiz #8

Answer 1: Adversity

Agonistic
Chambered
Clarified
Chicanery

Answer 2: Continuum

Embellish
Envisaged
Excessive
Garlanded

Answer 3: RHLRND

Every even-numbered letter of the English alphabet was replaced by a letter two numbers after it, while every odd-numbered letter was replaced by a letter one number before it.

Answer 4: 48

The value of a word is obtained by adding the numbers corresponding to the letters of the word and subtracting the number of letters present in the word.

ABACUS = $1 + 2 + 1 + 3 + 21 + 19 - 6 = 47 - 6 = 41$

TALLEST = $20 + 1 + 12 + 12 + 5 + 19 + 20 - 7 = 89 - 7 = 82$

Therefore, FLAGELLA = $6 + 12 + 1 + 7 + 5 + 12 + 12 + 1 - 8 = 56 - 8 = 48$

Answer 5: RKMQNHZVYYUP

The first letter is replaced by a letter two numbers after it. The second letter is replaced by a letter three numbers after it and so on.

Answer 6: Abashed

Arousal/Perusal
Czarism/Czarist/Czarish
Gourmet/Guarded
Polemic

Answer 7: Orchard/Archery

Pendant/Pentane/Lenient/benzene
Twelfth/Thereto
Adamant
Chuckle/Crucial/Crucify

Answer 8: 120

We have to find the greatest multiple of 5, less than 150, such that one number less than it is divisible by 7. This number works out to be 120.

$$120/5 = 0 \text{ and } 119/7 = 0$$

Answer 9: 45

We can solve this using simultaneous equations.

Answer 10: 62 inches

A-D-B-C represents the decreasing order of heights. Height of A = 72 inches and hence height of C is 62 inches.

Answer 11: The height of the box will be 4 cm. The length will be $(19 - 4 - 4 =) 11$ cm and the breadth will be $(17 - 4 - 4 =) 9$ cm. So, the volume of the box will be $11 \times 9 \times 4 = 396$ cubic cm.

Answer 12: 3150

$$1 \times 1 + 1^1 = 22 \times 2 + 2^2 = 83 \times 3 + 3^3 = 364 \times 4 + 4^4 = 2725 \times 5 + 5^5 = 3150$$

Answer 13: $9 \times 6 / 2 + 1 = 28$ or $(9 + 6 - 1) \times 2$

Answer 14: $4 \times (5 + 7 - 6) = 24$ or $(7 + 5) * (6 - 4)$

Answer 15: $(5 \times 7 + 9) / 1 = 44$

Answer 16: $(6 + 7) * (9 - 2)$

Answer 17: Mortgage

6, 7, 8: age

5, 6, 4, 8: gate

1-2-6: cat

4, 6, 5: tag

4, 2, 1: Tom

3, 6, 5: rag

Answer 18: CARPET

6-5-2: tea

4-5-2-3: pear

3-2-6: rat

1-2-6: cat

Answer 19: Against

parsnip

inferno

paradox

utensil

Answer 20: requiem

rhubarb

warrior

disobey

caravan

Solutions of Online Quiz #9

Answer 1: 11:1

The average of the 11 terms of the A.P. will be equal to the 6th term

As given 6th term = 1st term + 5th term

Solving we get, first term = common difference

Highest contribution = 11 times the Lowest contribution.

Answer 2: 60 km/litre

With Prakash and his son the mileage is 56 km/litre and with Prakash alone the mileage is 64 km/litre. The average mileage is given by $15 / ((7/56) + (8/64)) = 60$ km/litre

Answer 3: Path 1

The additional time one takes to travel on path 2 is two hours which is equivalent to Rs. 50. The additional toll paid for path 1 is Rs. 45.

Answer 4: 20th

She would have used a talktime of 595 minutes till end of 19th. So on 20th she would need to go for the refill.

For questions 5 and 6: Five nine-lettered words are broken in parts of 3-3-3 each and are jumbled below. Find the words.

Answer 5: Configure

Temporary

Destitute

Dexterous

Ebullient

Answer 6: Asserting

Catalogue

Excursive

Geography

Aliterate

Answer 7: Meander

Jaywalk/Skywalk/Payback

Kibbutz

Enamour

Entrain

Answer 8: Enforced

Deranged/Arranged

Fragment

Enduring

Outcaste

Answers 9: Rigorous

Artistic/Autistic

Interval/Arterial/External

Humidity

Obsolete

Answer 10: $(7/2 + 3) \times 6$

Answer 11: $(9 - 1) \times (6 + 3)$

Answer 12: $(6 \times 9) + (4/1)$

Answers 13: Extinct/Defunct/Adjunct

Dispair

Mandala

Equinox

Placebo

Answer 14: haste/ paste/ caste/ taste

swear

sweat

skill

crowd

Answer 15: 115

The difference of the terms is 15, 23, 31,... So the difference in the last term and 76 should be 39.

Answer 16: $A = 2, B = 8, C = 0$

From observation one can conclude that $C = 2$. The solution follows thereafter.

Answer 17: $A = 5, B = 2, C = 7$

From observation we can conclude $C = 7$. The solution follows thereafter.

Answer 18: 6:1

Use the property that product of two numbers is equal to $LCM \times HCF$.

Answer 19: AERODROME – An airfield equipped with control tower and hangers as well as accommodations for passengers and cargo

2-3-4-5-9 means to deteriorate – ERODE

5-6-9-1-8 is a cherished desire – DREAM

6-7-8-9 is a former mistress who resides by the Tiber – ROME (Rome, formerly the “Mistress of the World” is a city on the banks of the River Tiber)

Answer 20: Archipelago – A group of many islands in a large body of water

The 1-2-3 is an important concept in geometry. – ARC

6-7-8-7 was perhaps the greatest player of the “beautiful game” – PELE (Soccer is the “beautiful game”)

6-7-8-7 has scored many a 10-11-9-8 in his career. – PELE has scored many a GOAL in his career.

1-2-3-4-5-7 has many ‘comic’ capers with Cooper and Lodge – ARCHIE (He has featured in many comic capers with Betty Cooper and Veronica Lodge)

Creatures that make the sound 3-4-5-2-6 usually find 6-7-2-3-4 a resting place – CHIRP and PERCH

Solutions of Online Quiz #11

Answer 1: A = 7, B = 3, C = 8, D = 2

Answer 2: A = 5, B = 7, C = 2, D = 8, E = 4, F = 6

OR

A = 2, B = 5, C = 9, D = 1, E = 2, F = 4

Answer 3: A = 5, B = 4, C = 6

Answer 4: Hand.

Handsome

Handwash

Backhand

Answer 5: Some.

Wholesome

Quarrelsome

Someday

Answer 6: Out.

Blackout

Outplay

Outnumber

Answer 7: Fore.

Foretell

Foresee

Therefore

Answer 8: Whomsoever

Hieroglyphic/Erogenous/ and others...

Answer 9: Telecommunication/Teleconference

Radioactive/Bioactive

Answer 10: Phlegm/Athlete

Bewilder

Answer 11: Take out one paper and eat it.

Answer 12: Exchange the horses and rush towards the finish line. Remember it is OK even if the person crosses the line first as long as his horse comes second.

Answer 13: Mix two half filled barrels into a fully filled barrel. Now one has 6 fully filled barrels, 3 half filled barrels and 6 empty barrels.

Answer 14: There are 9 liars.

Only the statement of 9 is logically consistent.

Answer 15: A l f a l f a

T r o u b a d o u r

Answer 16: Undaunted
Saturate

Answer 17: Hobgoblin
longing

Answer 18: 2 minutes. The train need to travel 6 km to completely pass through the tunnel. After the first 3 km, the train wil be completely in the tunnel and after 3 more completely out of it. So time required = distance/speed = $6/3 = 2$ minutes.

Answer 19: 15 kms. When a car travels 5 km, all 4 tyres travel 5 km each. So, when 22.5 kms have been traveled, $(22.5 \times 4 =)$ 90 kms have been traveled in all. But 6 tyres were used. so each tyre traveled $90/6 = 15$ kms.

Answer 20: 840. he can meet all of them after x number of days such that x is the L.C.M., which turns out to be 840.

Solutions of Online Quiz #13

Answer 1: Bread.

Breadwinner
Sweetbread
Cornbread

Answer 2: Tube.

Tubetop
Test-tube
Tube-well

Answer 3: Proof.

Childproof
Waterproof
Proofread

Answer 4: Eye.

Buckeye
Eyesore
Eyelash

Answer 5: blob

sass/hash/ease
aorta/sorts

Answer 6: trout

colic
maxim

Answer 7: willow

libel
notion

Answer 8: fluff

yearly
equate/squats

Answer 9:

Don't judge a book by its cover.
Half a loaf is better than no bread.

Answer 10:

Beauty is only skin deep.
A fool and his money are soon parted.

Answer 11: Nothing.

Answer 12: An electric fan.

Answer 13: Amit bought great quantities of apples to sell to poor people at prices they could afford. He started out as a billionaire, but lost so much money in his good works that he became a millionaire.

Answer 14: The driver was walking.

Answer 15: Take a piece of fruit from the box marked 'mangoes and papayas'. Suppose the fruit you extract is a mango. As the labelling has been done incorrectly, this box cannot contain both mangoes and papayas. Also, since a mango was extracted from the box, it has to contain mangoes only. Now, the box labelled as papayas can neither contain only papayas nor can it only contain mangoes. Hence, it contains mangoes and papayas. The remaining box would contain only papayas. Similarly, if the fruit extracted was a papaya, we can determine the boxes using the same method.

Answer 16: He was the only man in the room. The rest were all women.

Answer 17: $3/8$.

Answer 18: 0 and 1

Answer 19: 22.5 degrees

At 9:45, the minute hand will be perfectly horizontal and will point towards 9. The hour hand will be towards 10. Also, hour hand must have covered $3/4$ th of angle between 9 and 10.

The angle between two adjacent digits is $360/12 = 30$ degrees.

Hence $3/4$ of it is 22.5 degrees.

Answer 20: 9 cows.

We know that

2 cows = 5 dogs

18 cows = 45 dogs ----- (I)

Also,

9 dogs = 2 horses

45 dogs = 10 horses

18 cows = 10 horses ----- From (I)

Therefore,

5 horses = 9 cows

Solutions of Online Quiz #15

Answer 1: Kick.

Kickoff

Kickstart

DropKick

Answer 2: Foot.

Footloose

Barefoot

Football

Answer 3: Sky.

Skyway

Skylark

Skydiver

Answer 4: Tarot

Aura

Eagle

Answer 5: Barb

Blurb

Taunt

Answer 6: Kayak

Modem

Amoeba

Answer 7: Revolver

Caddilac

Deluded

Answer 8: A bad cause requires many words.

A book is like a garden carried in the pocket.

Answer 9: A bird in the hand is worth two in a bush.

A broken hand works, but not a broken heart.

Answer 10: A cat has nine lives.

A clear conscience is a soft pillow.

Answer 11: A close friend can become a close enemy.

A closed mouth catches no flies.

Answer 12: Raj had hiccups. The waiter scared them away with his revolver.

Answer 13: She opened the door and saw that her cup's handle was facing the back of the microwave. In order that she can reach the cup-handle and avoid burning her hand, She set the oven for two more seconds, so that the turntable would turn 180 degrees.

Answer 14: His house was a houseboat and he died due to lack of water as he was on an extended cruise.

Answer 15: They had gone for a drive-in movie.

Answer 16: Trust.

Answer 17: A volcano.

Answer 18: A lawsuit.

Answer 19: -3, -1, 1.

Answer 20: 225 metres.

Let x be the height in metres.

Now, actual span of the plane : span of the plane in the picture = height of the plane above the lens : depth of camera.

So, $15000 : 10 = x : 0.15$

Hence, $x = 225$ metres.

Solutions of Online Quiz #17

Answer 1: Life.

Afterlife

Lifetime

Lifelike

Answer 2: Super.

Superscript

Superweapon

Superimpose

Answer 3: Bone.

Tailbone

Boneless

Backbone

Answer 4: Cake.

Pancake

Cakewalk

Cheesecake

Answer 5: Druid

Esconce

Tidbit

Answer 6: Acequia

Erase

Entice

Answer 7: Elope

Tract

Sinus

Answer 8: Tumult

Eugene

Epitrite

Answer 9: A country can be judged by the quality of its proverbs.

A dimple on the chin, the devil within.

Answer 10: A drink precedes a story.

A drowning man is not troubled by rain.

Answer 11: A fool sees not the same tree that a wise man sees.

A forest is in an acorn.

Answer 12: A friend's eye is a good mirror.

A good denial, the best point in law.

Answer 13: A mosquito had bit Manish and in retaliation he had swatted it when it settled on his ceiling and that resulted in the stain of his and the mosquito's blood together.

Answer 14: Ramesh was the night watchman and he was expected to be patrolling rather than dreaming.

Answer 15: Craig was a spy posing as returning American tourist. Hence, when filling the form he wrote his birth date as 20/06/86, instead of the way an American would write it, viz. 06/20/86.

Answer 16: Stable

Answer 17: Heart.

Answer 18: Rs. 316.

Let the cost of each burger, pizza and sandwich be Rs. x , y and z respectively

Therefore, $9x + 8y + 6z = 420$... (i)

And $5x + 4y + 2z = 262$... (ii)

Subtracting (ii) from (i),

$$4x + 4y + 4z = 158$$

$$\text{Therefore } 8x + 8y + 8z = 316$$

Therefore the price of 8 burgers, 8 pizzas and 8 sandwiches is Rs. 316.

Answer 19: 130.

Total score of Drona in first 6 matches = 270

And in the last 6 matches = 360

Score in the seventh match = Total score in all 7 matches – Total score in the first 6 matches
= $360 + 40 - 270 = 130$

Therefore, Drona scored 130 runs in the seventh match.

Answer 20: 15 hours.

Since 25 men take 10 days at 9 hours per day, the total man hours required for the job is $25 \times 10 \times 9 = 2250$

As 15 men are working on the same job, the number of man hours required for the job will still be the same.

Hence, the number of hours that they should work every day is $2250 / (15 \times 10) = 15$ hours.

Solutions of Online Quiz #19

Answer 1: Out.

Outlast
Handout
Blackout

Answer 2: Star.

Starfish
Stargazer
Superstar

Answer 3: Side.

Sidekick
Shadyside
Alongside

Answer 4: After.

Afterimage
Aftermath
Afterglow

Answer 5: tourist

tempest
doted

Answer 6: debited

donated
alopecia

Answer 7: elance

Escalope
Truest

Answer 8: emeritae

tryst
estate

Answer 9: Good advice is often annoying, bad advice never.

Good as drink is, it ends in thirst.

Answer 10: Good luck beats early rising.

He who leaps high must take a long run.

Answer 11: Half a loaf is better than none.

Haste makes waste.

Answer 12: Have a horse of your own and then you may borrow another's.

He is not wise that is not wise for himself.

Answer 13: Push the cork into the bottle and shake the coin out.

Answer 14: It was a game of monopoly.

Answer 15: The coffee was an instant coffee. Water hadn't yet been added.

Answer 16: A Jigsaw Puzzle.

Answer 17: A soul.

Answer 18: 9 minutes.

In one minute pipe Q fills $(1/50)$ th part of a tank

Since it works for 35 minutes, it fills $35(1/50) = 7/10$

The remaining $3/10$ th is filled by P.

Since P fills the tank fully in 30 minutes, it takes $(3/10) \times 30 = 9$ minutes to fill $3/10$ th part of the tank.

So P should be closed after 9 minutes.

Answer 19: 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 977

If only 1 mango is sought, one sack must contain 1 mango.

If 2 mangoes are sought, one sack must contain 2 mangoes.

If 3 mangoes are sought, sack one and sack two that add up to 3 can be given.

For 4 mangoes, one sack must contain 4 mangoes.

Now using sack number one, two and three containing 1, 2 and 4 mangoes respectively, one can give up to 7 mangoes. Hence, the fourth sack must contain 8 mangoes.

Similarly, using first four sacks containing 1, 2, 4 and 8 mangoes, up to 15 mangoes can be given.

Hence, the fifth sack must contain 16 mangoes.

It's evident that each sack contains mangoes according to powers of 2 in the increasing order.

Hence the answer is 1, 2, 4, 8, 16, 32, 64, 128, 256, 512 and 977. This is true for any number of mangoes up to 2000.

Answer 20: 5 : 12.

Amount of rose syrup in the original solution was $(= (1/7) \times 42)$ 6 litres.

So, the amount of milk = 36 litres.

After adding 9 litres of rose syrup, the mixture now contains 15 litres of rose syrup.

Hence,

Rose syrup : Milk = $15:36 = 5 : 12$.

Solutions of Online Quiz #21

Answer 1: Ball.

Ballroom
Fireball
Highball

Answer 2: All.

Carryall
Allover
Allspice

Answer 3: Wall.

Wallpaper
Walleyed
Stonewall

Answer 4: Sun.

Sunbathe
Sunbaked
Sunup

Answer 5: torrent

hashish
tacit

Answer 6: aspidistra

tyrant
heath

Answer 7: tantamount

polyp
ephedrine

Answer 8: trident

plump
hitch

Answer 9: Do not talk Arabic in the house of a Moor.

Don't imitate the fly before you have wings.

Answer 10: Don't look a gift horse in the mouth.

Every garden may have some weeds.

Answer 11: Eat well, drink in moderation, and sleep sound, in these three good health abound.

Epigrams succeed where epics fail.

Answer 12: Every ass loves to hear himself bray.

Even a small thorn causes festering.

Answer 13: The bird watcher was sitting in an aeroplane about 20,000 feet above the ground when he unexpectedly saw the bird get sucked into the engine. The engine stopped working and the plane crashed, killing him and all other passengers.

Answer 14: The man had fallen out of an aeroplane. The unopened package was a parachute that did not open.

Answer 15: Sycophant

Answer 16: Allude

5-4-3-2 : dull

1-2-3 : all

5-6-2-3 : dell

Answer 17: 66.67%

Let Amu's salary be x, Bittu's be y and Chotu's be z.

$$x = 0.75y$$

$$y = 0.8z$$

$$\text{so, } x = 0.75 * 0.8z = 0.6z$$

Thus, Amu's salary is 60% of Chotu's salary.

Thus, Chotu's salary is greater than Amu's salary by $40/60 * 100 = 66.67\%$.

Answer 18: Her savings increased by 6.25%.

Let Rani's expenditure be 5x and her savings be 4x. Hence, her initial income = 9x.

Her new income after the appraisal = 9.90x and her expenditure increases to 5.65x.

Hence, her new savings = $9.90x - 5.65x = 4.25x$

So, percentage change in the savings = $[(4.25x - 4x)/4x] * 100 = (0.25/4)*100 = 6.25\%$

Answer 19: Ali and Cali will earn profits of Rs. 12500 and Rs. 9000 respectively.

Let T1, T2 and T3 be the duration of investments for Ali, Bali and Cali and I1, I2 and I3 be their respective monetary investments.

So, they should have their profits in the ratio $T1*I1 : T2*I2 : T3*I3$.

$$\text{Now } T1 : T2 : T3 = 10 : 12 : 4 = 5 : 6 : 2$$

$$\text{and, } I1 : I2 : I3 = 5 : 7 : 9$$

Therefore, the ratio of their profits will be:

$$\text{Ali: Bali : Cali} = 5*5 : 7*6 : 9*2 = 25 : 42 : 18$$

Now, Bali's profit was 21000.

$$\text{So, Ali's profit} = (25/42) * 21000 = \text{Rs. } 12500$$

$$\text{and, Cali's profit} = (18/42) * 21000 = \text{Rs. } 9000$$

Answer 20: 48 km.

It took 3 hours for the friends to meet; so the pigeon flies for 3 hours at 16 km/hr which is equal to 48 km.

Answer 21: 43.75%.

Initially, he earns a profit of 25% as he sells off 800 gms as 1 kg.

To add to that, he marks up the price per kg by 15%.

$$\text{So, net profit} = 25 + 15 + (25*15/100) = 43.75\%$$

Solutions of Online Quiz # 23

Answer 1: Time.

Onetime
Meantime
Timeshare

Answer 2: Boat.

Steamboat
Houseboat
Fireboat

Answer 3: Care.

Careworn
Caretaker
Carefree

Answer 4: ensure

mannerism
misinform

Answer 5: Aniseikonia

arcadia
emote

Answer 6: Egence

ceramic
entice

Answer 7: A loan though old is not a gift.

A lock is better than suspicion.

Answer 8: A penny saved is a penny gained.

Better no doctor at all than three.

Answer 9: A son is a son till he gets him a wife,

A spoon does not know the taste of soup, nor a learned fool the taste of wisdom.

Answer 10: LAVSERY and LAVFOUR.

The first letter is shifted to the fourth position while the second, third and fourth letters occupy positions 1, 2 and 3.

Answer 11: EPCRG and HYNQG.

The letters at the odd positions are replaced by letters that appear two positions after them in the English Alphabet.

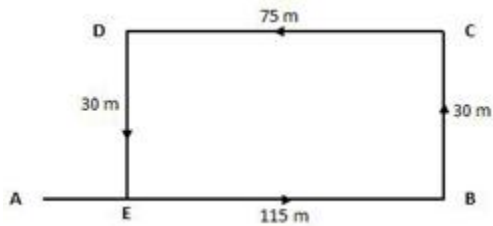
The letters at the even positions are replaced by letters that appear two positions before them in the English Alphabet.

Answer 12: 10

The expression translates to $13 + 16 \times 12 / 24 - 11$ which is equal to 10.

Answer 13: Gladys is the aunt of Paris or Paris is the niece of Gladys.

Answer 14: 40 metres.



The Figure represents: Geet's path viz. A-B-C-D-E.
We need to find EA, which is $115 - 75 = 40$ metres.

Answer 15: 6, 18, 22, 66, 71, 213, 219, 657, 664

$$6 \times 3 = 18, 18 + 4 = 22$$

$$22 \times 3 = 66, 66 + 5 = 71$$

$$71 \times 3 = 213, 213 + 6 = 219$$

$$219 \times 3 = 657, 657 + 7 = 664$$

95, 45, 20, 0 (every number is equal to the product of the digits of the number preceding it)

$$9 \times 5 = 45, 4 \times 5 = 20, 2 \times 0 = 0$$

Answer 16: Z

After removing the vowels and reversing the second half, we get :

B 4 ! L 8 % F 9 & 2 3 # Y Z \$ 7 X 5 T ^ R M P

The 9th element from the left is: &

and, the 5th element to its right is Z.

Answer 17: 280.

let the first term be a and the common difference be d.

$$\text{So, } a + 66d = 436$$

$$\text{and, } a + 6d = 76.$$

$$\text{hence, } d = 6 \text{ and } a = 40$$

$$\text{So, } 41\text{st term} = a + 40d = 40 + 240 = 280$$

Answer 18: Impetus

1-2-3 : Imp

7-6-1-5-4: Suite

7-6-1-5: Suit

Answer 19: Benign

1-2-4-3-5: Being

1-2-5-4-6: Begin

Answer 20: $\frac{4}{7}$

The probability that both selected candidates are women = $\frac{5C_2}{15C_2} = \frac{10}{105}$.

Also, the probability that one man and one woman are selected = $\frac{(10C_1 \times 5C_1)}{105} = \frac{50}{105}$.

Hence, the probability that at least one of the selected candidates is a woman = $\frac{(10 + 50)}{105} = \frac{60}{105} = \frac{4}{7}$

Answer 21: 27 students.

Let P, C and M denote Physics, Chemistry and Maths.

The % of students who passed in P and C only = % of students who passed in both P and C - % of students who passed in all three subjects = $20 - 15 = 5\%$

The % of students who passed in P and M only = % of students who passed in both P and M - % of students who passed in all three subjects = $17 - 15 = 2\%$

The % of students who passed in M and C only = % of students who passed in both M and C - % of students who passed in all three subjects = $18 - 15 = 3\%$

So, % of students who passed in Maths only = % of students who passed in M - % of students who passed in P and M only - The % of students who passed in M

and C only - The % of students who passed in all three subjects = $29 - 2 - 3 - 15 = 9\%$

Therefore, the number of students who passed in Maths only = 9% of 300 = 27

Solutions of Online Quiz #25

Answer 1: palp
hellish
dyad

Answer 2: drained
devoid
cynic

Answer 3: Rail.
Bedrail
Railway
Railroad
Or
Side.
Bedside
Sideway
Roadside

Answer 4: Blood is thicker than water.
Both your friend and your enemy think you will never die.

Answer 5: Death always comes too early or too late
Do not look where you fell, but where you slipped.

Answer 6: RIDER: 45894
DINNER: 853394
by comparing the two words, we get the values of the letters as:
C: 6
R: 4
A: 1
T: 7
E: 9
R: 4
I: 5
D: 8
N: 3
Using these, we can deduce the codes for the above words.

Answer 7:



Answer 8:

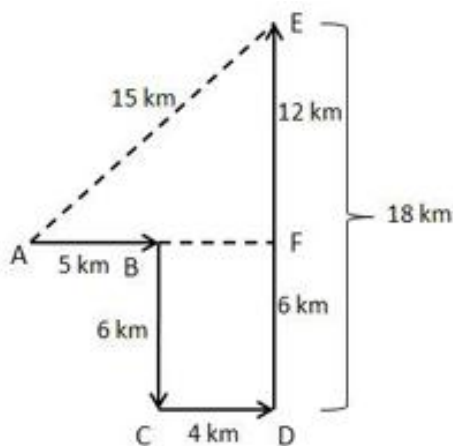
- a. Warmth, Weary, Wrangle, wrath, Wreath, Wretch.
- b. Dawn, Deam, Drape, Drawer, Drawn, Dream.

Answer 9: 61

The equation translates to: $19 + 45 - 5 \times 15 / 25$.
 $19 + 45 - 5 \times 15 / 25 = 64 - 75 / 35 = 64 - 3 = 61$.

Answer 10: 144. The number in the innermost circle is equal to the square of the difference between the outer numbers.

Answer 11: Her friend's house is 15 km away from hers.



In the figure, A-B-C-D-E represents the path she took. Extend AB to F. We can, thus, calculate AE using the Pythagoras' theorem.

Answer 12: N

After reversing the first half, we get :
 I R 4 2 F # E > \$ N L D B 1 % < H & P R @ *
 The 7th element from the left is: E
 and, the 3rd element to its right is N.

Answer 13: Derision

3-4-5-2: Rise

8-7-6-5-2: Noise

5-8-6-1-2: Snide

Answer 14: Venerate

5-6-7-8: Rate

3-2-6-7: Neat

4-1-2-3: Even

Answer 15: ALGEBRA : BKHDCQB

GEOMETRY: HDPLFSSX

The letters at the odd positions are replaced by the letters succeeding them while the letters at the even positions are replaced by the letters preceding them.

Answer 16: 9856 sq.cm

volume of the hemisphere = $(1/2) * (4/3) * \pi * r^3 = (1/2) * (4/3) * (22/7) * 14 * 14 * 14 = 5749.33$ sq.cm

height of cone = height of toy - radius of hemisphere = $34 - 14 = 20$ cm

volume of the cone = $(1/3) * \pi * r^2 * h = (1/3) * (22/7) * 14 * 14 * 20 = 4106.66$ sq.cm

Hence, Volume of the toy = $5749.33 + 4106.66 = 9856$ sq.cm

Using pi as 3.14, you get 9852 sq.cm

Answer 17: 1/15.

The six letters in the word MUMBAI can be arranged among themselves in $6!/2!$ Ways (as M is repeated twice).

So, $n(S) = 360$

Let E be the event that the arrangement has the letters "MUM" in sequence.

To find the number of words containing "MUM" in sequence, we consider "MUM" as one entity and arrange "MUM", B, A and I among themselves. This can be done in $4!$ Ways.

So, $n(E) = 4! = 24$

Hence, $P(E) = 24/360 = 1/15$

Answer 18: Rs. 1292

The total money reduced = $28 + 42 + 20 = 90$

Therefore the total money left = $5840 - 90 = 5750$

After the reduction, Gita's share = $5750 * 5/23 = 1250$

Hence, Gita's share, before the reduction = $1250 + 42 =$ Rs. 1292

Answer 19: They are sisters.

Answer 20: The equation translates to $13 + 22 * 55 / 44 - 33$ which is equal to 7.5

Answer 21:

a. pool

b. son

Solutions of Online Quiz #27

Answer 1: top.

blacktop
topnotch
topcoat

Answer 2: Wheel.

Flywheel
Wheelbarrow
Pinwheel

Answer 3: northern

sniggles
runner

Answer 4: sausages

golliwog
razor

Answer 5:

a. 3125 and 46656 : The series progresses as 1^1 , 2^2 , 3^3 , 4^4 and so on. Hence the next two numbers would be 5^5 and 6^6 which are 3125 and 46656 respectively.

b. 98 and 130: The series progresses as $2 + 8$, $10 + 8$, $18 + 16$, $34 + 16$, $50 + 24$, $74 + 24$ and $98 + 32$.

Answer 6: A wise man hears one word and understands two.

Better to light a candle than to curse the darkness.

Answer 7: Everyone loves justice in the affairs of another.

Flattery makes friends and truth makes enemies.

Answer 8: Aman is Edward's Grandfather.

Answer 9:

a. Crack, Crane, Crank, Crate, Creek
b. Dander, Danger, Dangle, Dengue, Dented

Answer 10: 5184.

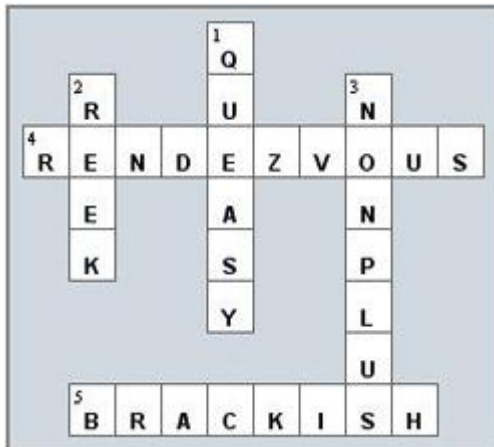
$$4 * 6 = 24$$

$$24 * 6 = 144$$

$$144 * 6 = 864$$

$$864 * 6 = 5184$$

Answer 11:



Answer 12: 3 times.

Answer 13:

BEANS = 23985

BRAND = 24981

MASTER = 795634

From the above codes, we get

A = 9

B = 2

D = 1

E = 3

R = 4

S = 5

T = 6

M = 7

N = 8

Using this, we can find the codes for any words containing these any of letters.

Answer 14: Santa Claus.

The message translates to : 3(Water - 2) = 3 (H2O - 2) = 3 (HO) = HO HO HO, which is Santa's favourite catchphrase. :)

Answer 15: 166

The statement translates to:

$63 / 7 + 15 * 12 - 46 / 2$ which is equal to: 166.

Answer 16: 20/99

Since the two events are independent, the probability that Siddharth and Rashmi both win the prize

= (Probability that Siddharth wins it) × (Probability that Rashmi wins it)

= $4/9 \times 5/11 = 20/99$

Answer 17: 9 : 10

Let Bharat's and Chitra's salaries be b and c respectively.

$$b \times 1.25 \times 0.8 = c \times 1.2 \times 0.75$$

$$b/c = 0.9/1 = 9/10$$

Ratio of Bharat's salary to Chitra's salary = 9/10

Answer 18: 15 degrees

As triangle PQT is an equilateral triangle and triangle PQRS is a square, TQ = QR

Therefore, triangle TQR is an isosceles triangle.

Angle TQP = 60 degrees and Angle RQP = 90 degrees

Therefore, angle TQR = 150 degrees

Therefore, angle QRT + angle QTR = (180 - 150)/2 = 15 degrees.

Answer 19: 20 hours

Let x and y be the speeds of airplanes X and Y.

therefore, $y = x + 10$

By the time airplane Y leaves Indore, airplane X has covered 8x km.

As both the airplanes reach Mumbai at the same time, Y covers 600 km in the same time that X covers (300 - 8x) km.

$$\text{So, } 300/y = (300 - 8x)/x$$

$$\text{Therefore, } 300/(x + 10) = (300 - 8x)/x$$

$$\text{Therefore, } 300x = 300x - 8x^2 + 3000 - 80x$$

$$\text{So, } 8x^2 + 80x - 3000 = 0$$

$$\text{Hence, } x^2 + 10x - 375 = 0$$

$$\text{So, } (x + 25)(x - 15) = 0$$

Hence, $x = 15$ as speeds can't be negative.

Therefore, time taken by airplane X = $300/15 = 20$ hrs

Answer 20: Horse and Hunger/weakness

Kid is the young one of a Goat while colt is the young one of a horse.

Running causes tiredness while a fast causes hunger/weakness.

Solutions of Online Quiz #29

Answer 1: Thumb.
thumbnail
thumbscrew
thumbprint

Answer 2: Dog.
underdog
doggone
dogfight

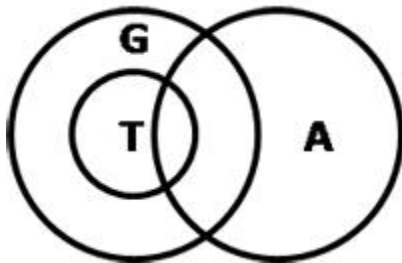
Answer 3: developed
evidence
hush

Answer 4: gagging
momentum
depend

Answer 5: A hedge between keeps friendship green.
A throne is only a bench covered with velvet.

Answer 6: Evil is sooner believed than good.
A hen is heavy when carried far.

Answer 7:
Case A:



From the VENN Diagram, it follows that conclusions 2 & 3 hold good while the others do not.

Answer 8: Karen will be the second tallest while Shirley will be the second shortest.

From the given information, we get the order of their heights as:

Mona > Karen > Andrea > Shirley > Rose.

Answer 9: The train that is moving against the direction of the Earth's spin i.e. westward is more likely to wear out its tyres as less centrifugal force acts on it.

Answer 10:



Answer 11: ALERT = 94237, TOAST = 71967 & MOIST = 81567

From the data that we're given, we get:

N = 0

O = 1

E = 2

R = 3

L = 4

I = 5

S = 6

T = 7

M = 8

A = 9

Using this we can easily find the above information.

Answer 12: 35 & -9.

The equations translate to: $144 - 23 \times 5 + 24 / 4$ & $44 / 22 \times 5 + 55 / 11 - 24$

On solving further, they reduce to 35 & -9 respectively.

Answer 13:



Answer 14: $5! * 5!$

There are 5 vowels and 4 consonants in EDUCATION.

If the Vowels have to be kept together, they have to be considered as a single entity together.

Hence, the 4 consonants and the group of vowels form 5 entities that can be arranged in $5!$ ways.

Also, the vowels can be rearranged among themselves in $5!$ ways.

Hence, the answer is $5! * 5!$

Answer 15: Rs. 33.33

For the first item,

$$CP + P = SP$$

$$SP = 400$$

$$P = 0.2 CP$$

$$\text{so, } 1.2 * CP = 400$$

$$\text{Hence, CP of the first item} = 400/1.2 = 333.33$$

For the second item,

$$CP - L = SP$$

$$SP = 400$$

$$L = 0.2 CP$$

$$\text{so, } 0.8 * CP = 400$$

$$\text{Hence, CP of the second item} = 400/0.8 = 500$$

$$\text{Hence, CP of the two items} = 333.33 + 500 = \text{Rs. } 833.33$$

He sold the two items for Rs. 800 ($= 400 * 2$)

Hence, he lost Rs. 33.33 in the transaction.

Answer 16: 864

Let x, y & z be the digits at the hundred's, ten's and digit's place of the original number.

Hence, the original number is $100x + 10y + z$.

Its reverse is $100z + 10y + x$.

Subtracting the reverse from the original number, we get

$(100x + 10y + z) - (100z + 10y + x) = 99x - 99z$ which is equal to 396

Hence, $x - z = 4$

Here, we start substituting possible values.

If $x = 9, z = 5$

If $x = 8, z = 4$

If $x = 7, z = 3$

If $x = 6, z = 2$

If $x = 5, z = 1$

If $x = 4, z = 0$

Also, $x + y + z = 18$.

If $x = 4, 5$ or 6 , we get y as a 2 digit number which is not possible.

Hence, $x = 9, 8$ or 7 .

If $x = 9$ & $z = 5$, then $y = 4$

If $x = 8$ & $z = 4$, then $y = 6$

If $x = 7$ & $z = 3$, then $y = 8$

Also, $x^2 + y^2 + z^2 = 116$

The only combination that satisfies this equation is $x = 8, y = 6$ and $z = 4$

Hence, the number is 864.

Answer 17: Radius of the circle = $1/2$ * diagonal of the rectangle.

Let the diagonal of the rectangle be 'x' cm.

$x^2 = 12^2 + 5^2$.

$x^2 = 169$

$x = 13$

So, radius of the circle = 6.5 cm

Area of the circle = $(22/7) * 6.5 * 6.5 = 132.79$ sq.cm.

Area of the rectangle = $12 * 5 = 60$ sq.cm.

Area of the green region = $132.79 - 60 = 72.79$ sq.cm.

Answer 18: The words that can be formed are:

1. STARVED
2. STAVED
3. STARED
4. STARVE
5. STAVE
6. STARE
7. SAVED
8. STEAD
9. SAVER
10. RAVES (when used as a verb)
11. RATES (when used as a verb)
12. DARES (when used as a verb)

Answers 19:

- a. Quintessence
- b. Presentiment
- c. Salubrious
- d. Abeyance

Answer 20: Gangue & Linen

- a. Waste from homes is garbage while waste materials in ore are called gangue.
- b. Latex is the raw material to make rubber while flax is the raw material to make Linen.

Answer 21: $1/8$.

Let 'a' be the length of a side of the square.

Hence, area of the square = a^2

For triangle QXY, base Qx = height YQ = $1/2 * a$

Hence, area of the triangle = $1/2 * (1/2 * a) * (1/2 * a) = 1/8 * a^2$

The probability that the point selected lies in triangle QXY is

= (area of triangle QXY)/(area of square PQRS)

= $1/8$

Solutions of Online Quiz #31

Answer 1: emergence

sedulous

sedition

Answer 2: everyone

sundries

reaper

Answer 3: Bill.

billboard

billfold

duckbill

Answer 4: Gun.

gunboat

guncotton

gunlock

Answer 5: A house without a dog or a cat is the house of a scoundrel.

A lie travels round the world while truth is putting her boots on.

Answer 6: A soft answer turneth away wrath: but grievous words stir up anger.

A tree falls the way it leans.

Answer 7: There can't be any mud in the pit or it wouldn't have been a pit to begin with.

Answer 8: 44.

This expression translates to $43 + (112 + 53) / (18 - 3) \times (42 / 14) - 32$ which is equal to $43 + 165 / 15 \times 3 - 32$ which is equal to 44.

Answer 9: 32 0 -32 96 144

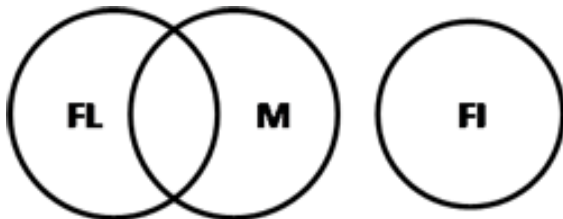
Answer 10: 32 80 -52 48 84.

Answer 11:



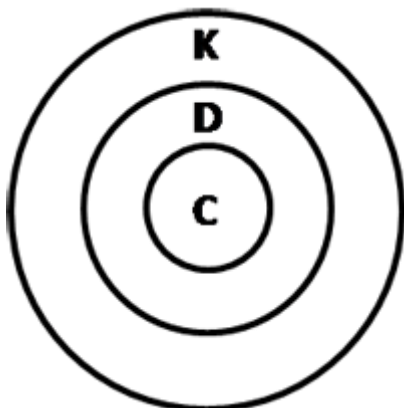
Answer 12:

Case A:



From figure 1, we get that conclusions a & c follow.

Case B:

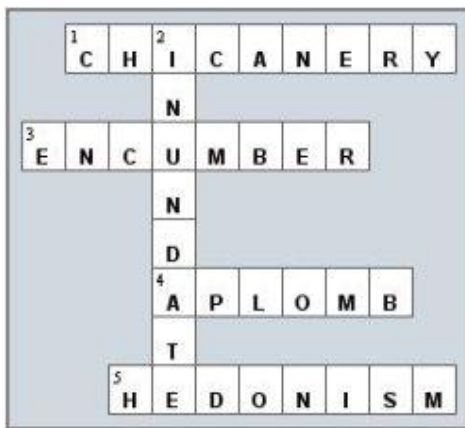


From figure 2, we get that all the conclusions follow.

Answer 13: The words that can be formed are:

trained
detrain
antired
trined
tirade
tinder
rident
retina
retain
ratine
ranted
rained
ardent
airted

Answer 14:



Answer 15: Blue - Orange - Green - Yellow - Indigo - Violet - Red.

Answer 16: 3.44 square units.

There are four quarters in the square equal the area of one complete circle.

The shaded region is, thus, the area of the square - the area of one circle.

The area of the square = $4 * 4 = 16$ sq. units

The area of the circle = $3.14 * 2 * 2 = 12.56$ sq. units

Thus, the area of the shaded region = $16 - 12.56 = 3.44$ sq. units.

Answer 17: 164

The numbers could be four digit, three digit, two digit or one digit numbers.

For four digit numbers, the first digit can't be zero, so the first digit can have four possibilities, the second can have four possibilities, the third can have 3 possibilities and the fourth can have 2 possibilities. Hence, there are $4*4*3*2 = 96$ possible numbers.

For three digit numbers, the first digit can't be zero, so the first digit can have four possibilities, the second can have four possibilities and the third can have 3 possibilities. Hence, there are $4*4*3 = 48$ possible numbers.

For two digit numbers, the first digit can't be zero, so the first digit can have four possibilities and the second can have four possibilities. Hence, there are $4*4 = 16$ possible numbers.

zero isn't a natural number. Hence, there can be only 4 single digit numbers.

Hence, total number of possible numbers = $96 + 48 + 16 + 4 = 164$.

Answer 18: $2/3$ or $4/6$.

There are 6 possible cases when the sum of the dice is less than or equal to four.

Dice 1 - 1 , Dice 2 - 1

Dice 1 - 1 , Dice 2 - 2

Dice 1 - 1 , Dice 2 - 3

Dice 1 - 2 , Dice 2 - 1

Dice 1 - 2 , Dice 2 - 2

Dice 1 - 3 , Dice 2 - 1

So, $n(S) = 6$

There are only 4 events among these when only one die has 1 facing upwards.

So, $n(E) = 4$

Hence, $P(E) = 4/6 = 2/3$

Answer 19: 80 days.

The number of man-hours required to complete the task is $35 * 8 * 76 = 21280$.

The number of days required to complete the task by 19 men working 14 hours a day = $21280 / (19 * 14) = 80$.

Answer 20: The words that can be formed are:

revenge

vener

renege

evener

verge

venge

reeve

never

nerve

green

genre

Solutions of Online Quiz #33

Answer 1: Pyramid

3-4-5 = ram

5-4-6-7- = maid

1-4-7-7-2 = paddy

Answer 2: Snooze

2-3-1-6 = nose

3-4-5-6-1 = oozes

Answer 3: One after another.

Answer 4: cat

polecat

catfish

catnip

Answer 5: writer

copywriter

ghostwriter

typewriter

Answer 6: It is easy to open a store -- the hard part is keeping it open!

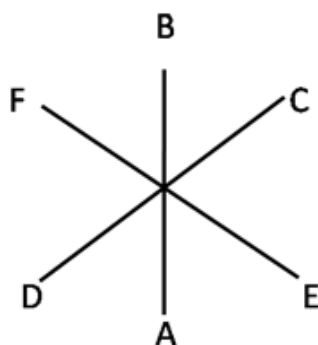
See people beyond who they are, not just who they seem to be.

Answer 7: Women who strive to be equal to men lack ambition.

What is once well done is done forever.

Answer 8: Dhaval.

Using the information, we get an arrangement as shown in the figure:



Answer 9: 17 13 -2 21 -7.

Answer 10: 64 169 121 81 49

Sequence of steps:

Step 1: 2 * square root of input

step 2: step 1 / 2 + 1

Step 3: All elements are shifted left by one position

Step 4: Step 2 - step 3

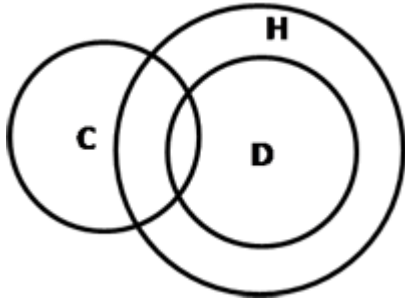
Step 5: Step 2 + step 4

Answer 11: 212.

The equation translates to: $17 \times 5 + 18 \times 7 - 119/17 + 152/19$ which is equal to 212

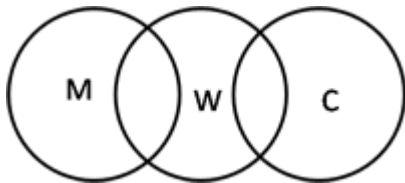
Answer 12:

Case A:



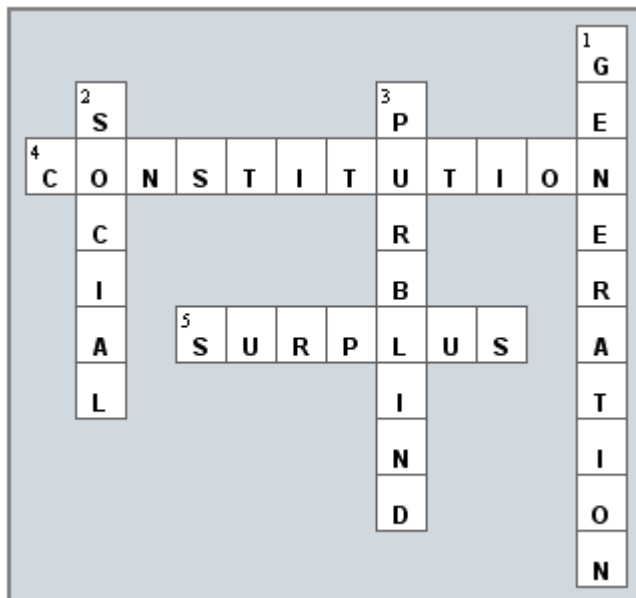
From the Venn Diagram, we get that Conclusions 2 & 3 follow.

Case B:



From the Venn Diagram, we get that none of the conclusions follow.

Answer 13:



Answer 14: Possible words are:

virtual
ritual
virtu
viral
urial
ultra
trial
trail
rival

Answer 15: 99090.

This is an a.p. with $a = 103$ and $d = 5$.

Also, the last term would be 998.

Hence there are $(998 - 103)/5 + 1 = 180$ terms.

Hence, the sum of all the terms in the series is:

$$\begin{aligned} S &= n/2[2a + (n-1)d] \\ &= 180/2[206 + 179*5] \\ &= 90[206+895] \\ &= 90[1101] \\ &= 99090 \end{aligned}$$

Answer 16: 11/50

Out of the 52 marbles, when I drew 2, there are 50 marbles left.

Out of these, 11 are red marbles.

Hence, the probability that the lost marble is a red one is 11/50

Answer 17: 54 and 75.

Let x be the number of days they were allotted to finish the work.

Hence from the given conditions, we get

$$900/(x-6) - 810/(x-3) = 1$$

On simplifying this equation, we get

$$7x^2 - 93x - 594 = 0$$

Thus $x = 18$.

Thus $x - 3 = 15$ and $x - 6 = 12$.

Thus the first factory produced 54 boxes a day while the other produced 75 boxes a day.

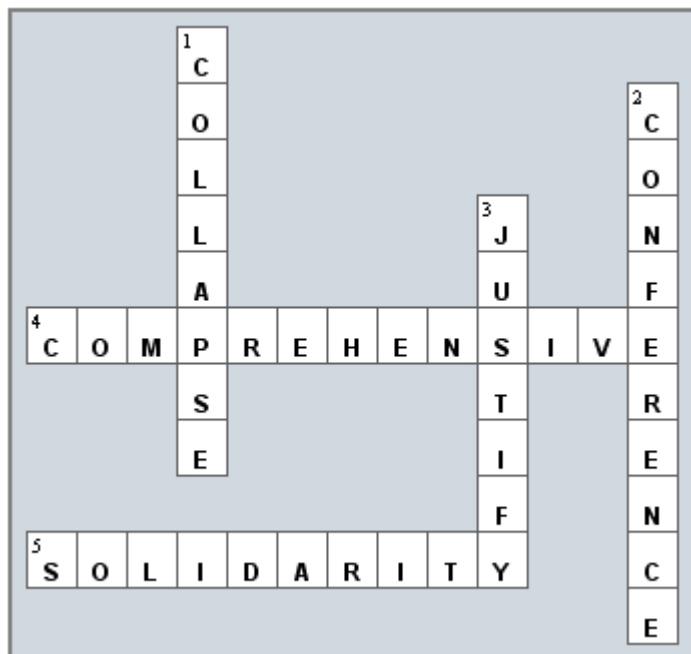
Answer 18: 33264 cu.cm

The height of the cylinder = 10 cm.

Hence total volume = volume of cylinder + volume of hemisphere

$$\begin{aligned} &= \pi * r^2 * h + 1/2 * 4/3 * \pi * r^3 \\ &= 22/7 * 21 * 21 * 10 + 1/2 * 4/3 * 22/7 * 21 * 21 * 21 \\ &= 66 * 210 + 44 * 441 \\ &= 33264 \text{ cu.cm} \end{aligned}$$

Answer 19:



Answer 20: Possible words are:

- blinker
- relink
- linker
- bilker
- reink
- liner
- liker
- liken
- liber
- inkle
- inker
- brink
- brine
- blink
- birle
- biker

Solutions of Online Quiz #35

Answer 1: 8:16 pm.

Let T_1, D_1, S_1 and T_2, D_2 and S_2 be the time taken, distances and speeds of the two buses.

$$D_1 = D_2 = x$$

$$T_1 = 6 \text{ hrs}$$

$$T_2 = 5 \text{ hrs}$$

$$S_1 = x/6 \text{ km/hr}$$

$$S_2 = x/5 \text{ km/hr}$$

Distance covered by A in 1 hr = $x/6$ km

Distance between the 2 buses at pm = $x - x/6 = 5x/6$

Both buses are travelling towards each other, their relative speed = $x/6 + x/5 = 11x/30$ km/hr

Time taken by the 2 buses to meet = $(5x/6)/(11x/30) = 2.27$ hrs. = 2 hours and 16 minutes (approx)

Hence, they meet at, 6 pm + 2 hrs and 16 minutes = 8:16 pm

Answer 2: Going by the notations in the previous question:

$$T_1 = 9 \text{ hrs}, T_2 = 8 \text{ hrs}, T_3 = 10 \text{ hrs}$$

$$D_1 = D_2 = D_3 = x$$

$$S_1 = x/9, S_2 = x/8, S_3 = x/10$$

Hence, the ratio of their speeds B : D : E = $1/9 : 1/8 : 1/10 = 40 : 45 : 36$

Answer 3: A haircut.

Answer 4: Be wise with speed; a fool at forty is a fool indeed.

Just remember, once you're over the hill you begin to pick up speed.

Answer 5: To err is human, to blame it on someone else is more human.

The one who says it cannot be done should never interrupt the one who is doing it.

Answer 6: Renegade.

5-1-6-7-8 = GRADE

5-1-2-4-3 = GREEN

Answer 7: Enthralled.

5-1-2-3-9-10 = rented

4-6-7-8 = hall

Answer 8: Butter.

Buttercup

Butterfingers

Buttermilk

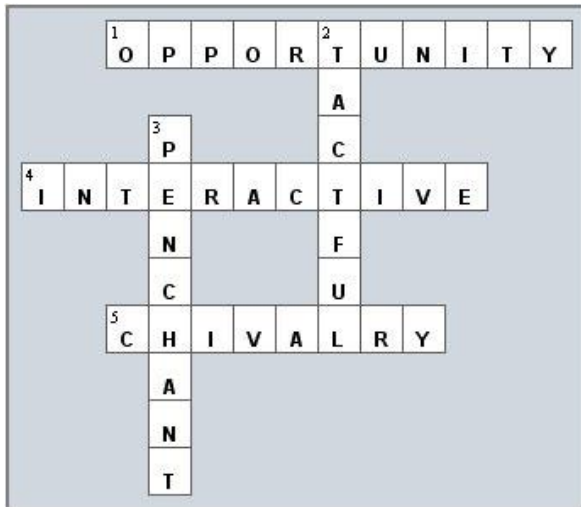
Answer 9: Tail

Tailtight

Pigtail

Tailspin

Answer 10:



Answer 11: Possible words are:

- Grammar
- Marram
- Magma
- Grama
- Gamma
- Mama
- Maar
- Gram
- Agma

Answer 12: 3 -4 -1 -9 11

Answer 13: 1 -4 -5 3 5

Sequence of steps:

Step 1: $(2^{\text{input}}) - 1$

step 2: Sum of the digits

Step 3: Elements are arranged in the ascending order

Step 4: Step 2 + step 3

Step 5: Each element is subtracted by the element succeeding it.

Answer 14: Raveena.

From the given information, we get the order as:

Prachi > Dino > Urmila = Diana > Anushka > Raveena.

Answer 15: Rs. 6000.

Let the principal be x.

Simple Interest = $(x * 14 * 2) / 100$

Compound Interest = $x[1 + 14/100]^2 - x$

Thus,

$x[114/100]^2 - x - 28x/100 = 117.6$

$x[12996/10000] - x - 0.28x = 117.6$

$1.2996x - 1.28x = 117.6$

$0.0196x = 117.6$

$x = 117.6/0.0196$

$x = 6000$

Answer 16: 1715 sq.cm

by using Pythagoras' theorem, we get AC = 70 cm.

The area of the yellow region = area of triangle + area of semi-circle - area of the sector

$$= \left[\frac{1}{2} \times (56) \times (42)\right] + \left[\frac{1}{2} \times \left(\frac{22}{7}\right) \times 35 \times 35\right] - \left[\frac{1}{4} \times \left(\frac{22}{7}\right) \times 42 \times 42\right]$$

$$= 1176 + 1925 - 1386$$

$$= 1715 \text{ sq.cm}$$

Answer 17: 24 questions a day.

Let x be the number of days.

SO, the had to create (216/x) questions everyday as per the original plan.

Then as per the information,

$$3(216/x) + (x-4)[216/x + 8] = 232$$

$$648/x + (x-4)(216/x + 8) = 232$$

Solving further, we get

$$8x^2 - 48x - 216 = 0$$

$$\text{Thus, } x^2 - 6x - 27 = 0$$

$$\text{Thus, } x = 9 \text{ or } x = -3$$

x cannot be -3. So, x = 9

$$\text{Hence, } 216/x = 216/9 = 24$$

Answer 18: 332640 ways

5 persons can be picked out of 11 in ${}^{11}C_5$ ways.

They can be arranged among themselves in only 1 way.

The remaining 6 people can be arranged among themselves in 6! ways.

$$\text{Hence, the number of ways in which the condition can be satisfied} = {}^{11}C_5 \times 1 \times 6! = \frac{(11! \times 6!)}{(5! \times 6!)} = 11!/5! = 332640 \text{ ways}$$

Answer 19:



Answer 20: Possible words are:

Example

Empale

Maple

Expel

Ample

Plea

Peel

Peal

Palm

Pale

Leap

Lamp

Apex

Solutions of Online Quiz #37

Answer 1: 336 Students

No of students who took chemistry = $90/360 * 1920 = 480$

Out of these, 30% failed. Hence, no of students who passed = $70/100 * 480 = 336$

Answer 2: 3 : 1

No of students who took maths = $45/360 * 1920 = 240$

Out of these, 15% failed. Hence, no of students who failed = $15/100 * 240 = 36$

No of students who took physics = $22.5/360 * 1920 = 120$

Out of these, 10% failed. Hence, no of students who failed = $10/100 * 120 = 12$

Hence the ratio of students who failed in maths to those who failed in physics = $36 : 12 = 3 : 1$

Answer 3: 79.06%

No of students who took English = $67.5/360 * 1920 = 360$

Out of these, 25% failed. Hence, no of students who failed = $25/100 * 360 = 90$

No of students who took Hindi = $78.75/360 * 1920 = 420$

Out of these, 20% failed. Hence, no of students who failed = $20/100 * 420 = 84$

No of students who took maths = $45/360 * 1920 = 240$

Out of these, 15% failed. Hence, no of students who failed = $15/100 * 240 = 36$

No of students who took physics = $22.5/360 * 1920 = 120$

Out of these, 10% failed. Hence, no of students who failed = $10/100 * 120 = 12$

No of students who took chemistry = $90/360 * 1920 = 480$

Out of these, 30% failed. Hence, no of students who failed = $30/100 * 480 = 144$

No of students who took biology = $56.25/360 * 1920 = 300$

Out of these, 12% failed. Hence, no of students who failed = $12/100 * 300 = 36$

Hence, No of students who failed = 402

Hence, no. of students who passed = $1920 - 402 = 1518$

Hence, pass percentage = $1518/1920 * 100 = 79.06\%$

Answer 4: Rampage

5-6-7 : Age

1-2-3-4 : Ramp

Answer 5: Gesture

1-5-7-3-4 : Guest

6-2-3-4 : Rest

Answer 6: -3.

The equation translates to: $(51+26-78*25/5*8+11*4-1)/1000 = -3$

Answer 7: 1800

The equation translates to: $125/25*78+98-55/11+87+1263-33 = 1800$

Answer 8: sequacious

rubicund

reconnaissance

pantomime

Answer 9:



Answer 10: Possible words are:

- Engrave
- Avenger
- Regave
- Greave
- Graven
- Genera
- Enrage
- Avenge

Answer 11: line

- beeline
- deadline
- lineman

Answer 12: stand

- washstand
- newsstand
- standpipe

Answer 13: 68 46 14 82 25

Answer 14: 16 11 13 22 20

Sequence of steps:

Step 1: $2 * \text{input} - 1$

Step 2: $\text{step 1}^2 + 1$

Step 3: $\text{step 2} / 2$

Step 4: first and third digit are added positioned at the first place.

Step 5: digits are reversed

Answer 15: 1/36

The probability that pink appeared on the first toss is 2/6.

The probability that black appeared on the second toss is 3/6.

The probability that green appeared on the third toss is 1/6.

Hence, the probability that pink appeared on the first toss, black on the second and green on the third is $2/6 * 3/6 * 1/6 = 1/36$

Answer 16: 1/126

The boys can be arranged in 5! ways.

There are two possible arrangements:

1. B G B G B G B G B G

Here the girls can be arranged in 5! ways.

Hence this arrangement is possible in 5!5! ways.

2. G B G B G B G B G B

Here the girls can be arranged in 5! ways.

Hence this arrangement is possible in 5!5! ways.

Hence the total number of ways in which this is possible is $5!5! + 5!5!$ ways = $2 * 5! * 5!$ ways.

5 boys and 5 girls can be arranged among themselves in 10! ways.

Hence, the required probability is: $2 * 5! * 5! / 10! = 1/126$

Answer 17: 8245500

A series in a.p. is formed here with:

first term, a = 1000

common difference, d = 6

last term, t = 9994

number of terms, $n = (t-a/d) + 1 = 8994/6 + 1 = 1500$

The sum of the first 1500 terms of the series = $(1500/2) * (1000 + 9994) = 8245500$

Answer 18: 67

The total weight of the 40 students is : $73 * 40 = 2920$

The weight of the 10 students : $10 * 90 = 900$

The weight of the remaining 30 students = $2920 - 900 = 2020$

Hence, their average weight = $2020/30 = 67.33$ (rounded off to 67)

Answer 19:



Answer 20: Possible words are:

Regrate
Greater
Tearer
Retear
Regret
Regear
Grater
Garter
Garret
Ergate

Solutions of Online Quiz #39

Answer 1: 38%.

Answer 2: 46%

Answer 3: 82%

Detailed solution:

From the given info,

Number of students who have passed in Sociology alone = $100 - 45 - 15 - 30 = 10$

Number of students who have passed in Psychology alone = $125 - 30 - 45 - 25 = 25$

Number of students who have passed in Geography alone = $90 - 45 - 25 - 15 = 5$

Number of students who passed in at least 1 subject = $125 + 10 + 15 + 5 = 155$

So, number of students who failed = $250 - 155 = 95$

So, percentage of students who failed in all 3 = $95/250 * 100 = 38\%$

Number of students who passed in 2 or more subjects = $30 + 25 + 45 + 15 = 115$

So, percentage of students who passed in 2 or more subjects = $115/250 * 100 = 46\%$

Number of students have failed in at least 1 subject = $250 - 45 = 205$

So, percentage of students have failed in at least 1 subject = $205/250 * 100 = 82\%$

Answer 4: arm.

armchair

firearm

armpit

Answer 5: buck.

bucktooth

buckskin

roebuck

Answer 6: Love lights more fires than hate extinguishes.

He that lives forever, never fears dying.

Answer 7: Blood is inherited; character is earned.

A person's character reaches town before the person does.

Answer 8: Forensic

6-7-5-8-4 : SINCE

1-2-3-8-4 : FORCE

Answer 9: Enervate

2-3-5-1-4 : NEVER

4-6-7-8 : RATE

Answer 10:



Answer 11: Possible words are:

- village
- vagile
- glaive
- villa
- legal
- ileal
- glial
- gavel
- alive
- agile

Answer 12: 10 20 59 60 80

Answer 13: 6 13 14 19 12

Sequence of steps:

Step 1: Add 7 to the first element, 8 to the second element and so on....

Step 2: Subtract 10 from the first element, 9 from the second and so on...

Step 3: Reverse the digits of each element and and shift the elements left.

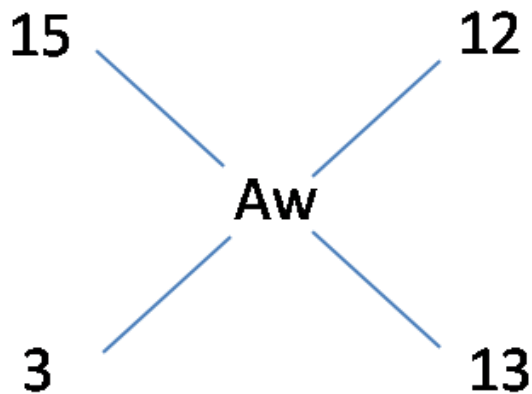
Step 4: Arrange the elements in increasing order.

Step 5: Add 9 to each element.

Answer 14:



Answer 15: Rs. 12.56



By the alligation rule,
 $3 : 13 = (12 - Aw) : (Aw - 15)$
 Thus, $3Aw - 45 = 156 - 13Aw$
 On simplifying, we get:
 $16Aw = 201$
 Thus, $Aw = 12.56$

Answer 16: 29

The smallest number divisible by 7 that lies between 1300 and 1500 is 1302.
 The largest number divisible by 7 that lies between 1300 and 1500 is 1498.
 Hence,
 $[(1498 - 1302) / 7] + 1 = 29$ terms lie between 1300 & 1500.

Answer 17: 14.52 km/hr

Let the total distance be x.

For the 1st third of the journey, $D = x/3$ and $T = (x/3)/25 = x/75$

For the 2nd third of the journey, $D = x/3$ and $T = (x/3)/15 = x/45$

For the 3rd third of the journey, $D = x/3$ and $T = (x/3)/10 = x/30$

Hence,

Average speed = Total Distance/Total Time = $x / (x/75 + x/45 + x/30)$
 $= x / (6x + 10x + 15x/450) = 450/31 = 14.52$

Answer 18: Rs. 6620

Let the original price be Rs. x.

Thus, B purchased it at Rs. $1.25x$

A purchased it back at $(1.3 * 1.25x =)$ Rs. $1.625x$

B's profit = $1.625x - 1.25x = 0.375x =$ Rs. 2482.5

Thus, $x = 6620$

Answer 19: The expression translates to:

$[(66+38)/(128/16)] - [(565/113)*(119-116)] = -2$

Answer 20: The expression translates to:

$[(119r17)e(75r5)]q[(144r16)w(52r26)] = 112$

Solutions of Online Quiz #41

Answer 1: 18 Students

No of students who took science = $18/360 * 600 = 30$

Out of these, 40% passed. Hence, no of students who failed = $60/100 * 30 = 18$

Answer 2: 11 : 12

No. of students who took Maths = $150/360 * 600 = 250$

Out of these, 44% passed. Hence, no of students who passed = $44/100 * 250 = 110$

No of students who took English = $90/360 * 600 = 150$

Out of these, 80% passed. Hence, no of students who passed = $80/100 * 150 = 120$

Hence the ratio of students who passed in Maths to those who passed in English = $110 : 120 = 11 : 12$

Answer 3: 64%

No of students who took English = $90/360 * 600 = 150$

Out of these, 80% passed. Hence, no of students who passed = $80/100 * 150 = 120$

No of students who took Hindi = $60/360 * 600 = 100$

Out of these, 92% passed. Hence, no of students who passed = $92/100 * 100 = 92$

No of students who took Marathi = $30/360 * 600 = 50$

Out of these, 70% passed. Hence, no of students who passed = $70/100 * 50 = 35$

No of students who took Maths = $150/360 * 600 = 250$

Out of these, 44% passed. Hence, no of students who passed = $44/100 * 250 = 110$

No of students who took Science = $18/360 * 600 = 30$

Out of these, 40% passed. Hence, no of students who passed = $40/100 * 30 = 12$

No of students who took Social Studies = $12/360 * 600 = 20$

Out of these, 65% passed. Hence, no of students who passed = $65/100 * 20 = 13$

Hence, No of students who passed = 382

Hence, pass percentage = $382/600 * 100 = 63.67\%$

Answer 4: IMPLIED

1-2-3 : IMP

4-5-6-7 : LIED

Answer 5: MEAGRE

3-5-6 : ARE

4-3-1-2 : GAME

Answer 6: Back.

backtrack

backlog

horseback

Answer 7: over

overcook

overcrowd

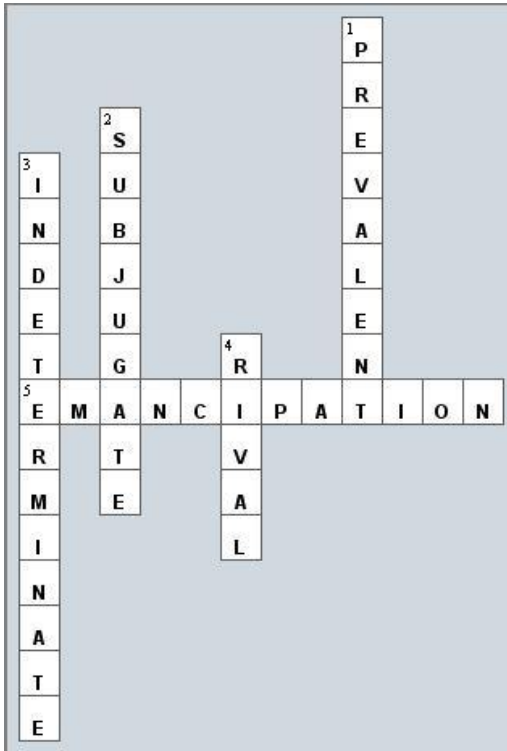
overlay/layover

Answer 8: If you are going to do something tonight that you'll be sorry for in the morning, sleep late.

Reach for the stars, even if you have to stand on a cactus.

Answer 9: Never say no due to pride, or yes due to weakness.
Christmas is a time when everyone wants his past forgotten and the present remembered!

Answer 10:



Answer 11: Possible words are:
defence
fenced
fence
need
fend
feed
dene
cede

Answer 12: Distribution
Symmetry
Development
Enrolment

Answer 13: 85 108 44 51 72

Answer 14: 72 105 20 160 147
Sequence of steps:
Step 1: The digits of each element are reversed
Step 2: Step 1 - 7
Step 3: The square of the sum of the digits of each element is calculated
Step 4: Every element is subtracted by the element to its immediate right
Step 5: The modulus of each element is taken and the element is shifted left

Answer 15: 18.44 cm

The area of a trapezium = $1/2 * \text{sum of parallel sides} * \text{height}$

The height = $\text{area} * 2 / \text{sum of parallel sides}$

Hence, height = $198 * 2 / 33 = 12$ cm

In triangle BAC,

By Pythagoras' theorem

BC = Square root of $(12^2 + 14^2) = 18.44$ cm

Answer 16: 24 years

Let the common ratio be x.

Hence, $8x + 5x + 2x = 15 * 3$

Hence, $15x = 45$

Hence, $x = 3$

the age of the oldest daughter is $8x = 24$ years

Answer 17: 45 and 25.

Let the father's age be x and that of the son be y.

$x + y = 70$... (1)

Also, $x = 9(y - (x - y))$

$x = 9(2y - x)$... (2)

substituting eq. (2) in eq. (1), we get

$9(2y - x) + y = 70$

Thus,

$-9x + 19y = 70$... (3)

Multiplying eq. (1) by 9 and adding it to eq. (3), we get

$-9x + 19y = 70$

$9x + 9y = 630$

$28y = 700$

$y = 25$

Thus, $x = 70 - 25 = 45$

Answer 18: $4/165$

The 11 letters can be rearranged in $11!$ ways.

But, S & I have be repeated 4 times and P 2 times.

Hence, sample space, $n(S) = 11! / (4! * 4! * 2!)$

If the I's are together, they need to be considered as a single entity.

Hence, the 8 entities can be rearranged in $8!$ ways

But S is repeated 4 times and P 2 times.

Hence, $n(E) = 8! / (4! * 2!)$

$P(E) = n(E) / n(S) = 8! * 4! / 11! = 4/165$

Answer 19: 1.

The expression translates to : $(45/5 - 6 * 56 - 9) / 112 * 1/3 + 2 = 1$

Answer 20: 100

The expression translates to : $(20 + 720 / 12 + 252 + 78 * 8 - 51 - 5) / 9 = 100$

Solutions of Online Quiz #43

Answer 1: Jowar weighed the least.

Answer 2: Jowar < Bajra < Pulses < Wheat < Rice.

From the given information,

Let the weight of Jowar be x , then Bajra = $2x$, Pulses = $4x$, Wheat = $4.5x$ and Rice = $9x$.

From, this we can determine the answers to both questions.

Answer 3: PHOENIX and LYNX

In the code language, each letter in English is replaced by a letter that is 3 positions before it.

Answer 4: OUTWEIGH

1-2-3 : OUT

4-5-6-7-8 : WEIGH

Answer 5: LIFETIME

1-2-3-4 : LIFE

5-6-7-8 : TIME

Answer 6:

Repository

Squeamish

Sanctimonious

Accentuate

Answer 7: The basic formula of all sin is: frustrated or neglected love.

We live in a box of space and time. Movies are windows in its walls.

Answer 8: Any married man should forget his mistakes; no use two people remembering the same thing.

After the game, the king and the pawn go into the same box.

Answer 9: Base

baseball

baseboard

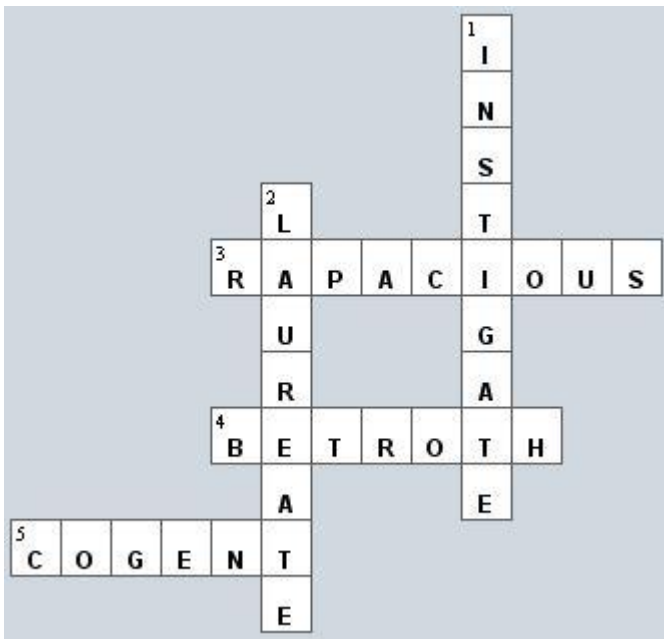
wheelbase

Answer 10: matchbook

passbook

bookmobile

Answer 11:



Answer 12: Possible words are:

Sceptre
Spectre
Respect

Answer 13: 109 71 69 85 101

Answer 14: 55 59 75 67 59

Step I : (First element * 9) - 1, (Second element * 8) - 1, (Third element * 7) - 1, and so on..

Step II : (sum of digits * 3) + 1

Step III : First element - 1, second element - 3, third element - 5 and so on...

Step IV : First element + 4, second element + 8, third element + 12 and so on...

Step V : Stwp 4 * 2 - 1

Answer 15: 1440

There are 4 prime numbers : 2,3,5,7. These can be arranged at the 4 odd places in 4! factorial ways.

The remaining 5 numbers can be arranged in the 3 remaining places in 5P3 ways

The total number of possible arrangements = 4! * 5P3 = 1440

Answer 16: 15/28

Joel tells the truth 4/7 times, hence he lies 3/7 times.

Kavitha tells lies 6/8 times, hence she speaks the truth 2/8 times

The probability that they contradict each other

= probability that Joel lies while Kavitha tells the truth + probability that Kavitha lies while Joel tells the truth

= $(\frac{3}{7} * \frac{2}{8}) + (\frac{4}{7} * \frac{6}{8})$

= $\frac{6}{56} + \frac{24}{56} = \frac{30}{56} = \frac{15}{28}$

Answer 17: 20 years.

Let the principal be x

Thus at the end of 5 years, the amount = 3x and the interest = $3x - x = 2x$

$$I = \frac{PRN}{100}$$

$$2x = \frac{x \cdot R \cdot 5}{100}$$

$$R = 40\%$$

Now, for the amount to be 9x, the interest is 8x

$$\text{Hence, } 8x = \frac{x \cdot 40 \cdot N}{100}$$

$$N = \frac{800}{40} = 20$$

Answer 18: 115.5 sq.cm.

$$PQ = QR = RS = \frac{21}{3} = 7 \text{ cm}$$

$$\text{Also, } PR = QS = 14 \text{ cm}$$

Area of the shaded region = Area of semicircle with diameter PR - Area of semicircle with diameter PQ + Area of semicircle with diameter QS - Area of semicircle with diameter RS

Since, PR = QS and PQ = RS

Area of the shaded region = [2 * Area of semicircle with diameter PR] - [2 * Area of semicircle with diameter PQ]

$$= \pi \cdot 7^2 - \pi \cdot 3.5^2 = \pi \cdot (7^2 - 3.5^2) = \pi \cdot 115.5 \text{ sq.cm}$$

Directions for questions 19 & 20: In both questions: 'Q' = '+', 'W' = '-', 'E' = '*' and 'R' = '/'. Find the value of the following expressions:

Answer 19: 3

$$\text{The above expression translates to : } \frac{(110 \cdot 6)}{(5 \cdot 5) \cdot (18 + 92)} \div (1054 - 86) = 3$$

Answer 20: 5

$$\text{The above expression translates to : } \frac{[(773 + 239) + (435 - 147) \cdot (244 / 4)] \div (12 \cdot 3)}{300} = 5$$

Solutions of Online Quiz #45

Answer 1: ABRASION

3-4-6-5-6-8: RAISIN

2-1-3: BAR

2-6-8: BIN

Answer 2: DISEASED

3-2-1-4: SIDE

6-5-2-1: SAID

3-4-7-1: SEED

Answer 3:

Timekeeper

Basketball

Blockbuster

Asparagus.

Answer 4: He who asks is a fool for five minutes, but he who does not ask remains a fool forever.

The palest ink is better than the best memory.

Answer 5: Loans and debts make worry and frets

What can't be cured, must be endured.

Answer 6: wash

brainwash

hogwash

washboard

Answer 7: walk

Jaywalk

walkout

crosswalk

Answer 8: 92

$(40 / (1 / 2)) + 12 = (40 * 2) + 12 = 92$

Answer 9:

12 Signs of the Zodiac

9 Planets in the Solar System

Answer 10:

24 Hours in a Day

29 Days in February in a Leap Year

Answer 11:

90 Degrees in a Right Angle

1000 Metres in a Kilometre

Answer 12: 21st July.

In Shyam's opinion, Achintya was married on either 20th July or 21st July.

In Prasad's opinion, Achintya was married on 21st July, 22nd July or 23rd July.

The only day common to both sets is 21st July and that's the day Achintya was married.

Answer 13:



Answer 14: Possible words are:

edictal

dialect

deltaic

citadel

Answer 15: 45 toffees

Let a HS student get x toffees, PS student get y toffees and KG student get z toffees.

Then, as per the given conditions:

$$x = \left(\frac{2}{3}\right) * y$$

$$y = \left(\frac{2}{3}\right) * z$$

$$\text{Hence, } x = \left(\frac{2}{3}\right) * \left(\frac{2}{3}\right) * z = \frac{4}{9} * z$$

$$\text{Thus, } 4x + 3y + 5z = 365$$

$$\text{Thus, } \left(\frac{16}{9}\right)*z + \left(\frac{10}{3}\right)*z + 3z = 365$$

$$\text{Thus, } \left[\left(\frac{16}{9} + \frac{30}{9} + \frac{27}{9}\right) * z\right] = 365$$

$$\text{Thus, } 73 * z = 365 * 9$$

$$\text{Thus, } z = \left(\frac{365 * 9}{73}\right) = 45$$

Answer 16: 327.25 sq.m.

The figure may be complicated but the area of the turquoise region, essentially, = area of semicircle with radius 14m + area of semicircle with diameter 7m = $\left(\frac{\pi * 14 * 14}{2}\right) + \left(\frac{\pi * 3.5 * 3.5}{2}\right) = 308 + 19.25 = 327.25$

Answer 17: 1751

There are 17 non-collinear points and 6 collinear.

Triangles can be formed in the following ways:

1. Choosing 3 out of the 17 non-collinear points in ${}^{17}C_3$ ways

2. Choosing 2 out of the 17 non-collinear and 1 out of the 6 collinear in ${}^{17}C_2 * 6$ ways

3. Choosing 2 out of the 6 collinear and 1 out of the 17 non-collinear in ${}^6C_2 * 17$ ways

Hence, the total number of triangles that can be formed = ${}^{17}C_3 + {}^{17}C_2 * 6 + {}^6C_2 * 17 = 1751$ ways.

Answer 18: 8500

Quadrilaterals can be formed in the following ways.

1. Choosing 4 out of the 17 non-collinear points in ${}^{17}C_4$ ways
2. Choosing 2 out of the 17 non-collinear points and 2 of the 6 collinear points in ${}^{17}C_2 \times {}^6C_2$ ways
3. Choosing 3 out of the 17 non-collinear and 1 out of the 6 collinear points in ${}^{17}C_3 \times 6$ ways.

Hence, the total number of quadrilaterals that can be formed = ${}^{17}C_4 + {}^{17}C_2 \times {}^6C_2 + {}^{17}C_3 \times 6 = 8500$

Answer 19: 2032

The above expression translates to : $(552/24) * 8 * (55/5) + (8 * 22) / (104 - 82) = 2032$

Answer 20: 303

The above expression translates to : $[(364 + 343) * 21 * (893 - 829)] / [(549 - 101) * 7] = 303$

Solutions of Online Quiz #47

Answer 1: Tackle

1-2-4-6 : care

5-2-3-4 : lack

Answer 2: Steadfast

1-4-5 : sad

6-7-8-9 : fast

6-3-4-2 : feat

Answer 3: Consumer

8-5-4-7 : ruse

1-2-6-6-2-3 : common

Answer 4: Sneering

Celestial

Apparition

Defenceless

Answer 5: The Man who stands with an open mouth must wait a long time for roast duck to drop in.

Answer 6: A bad penny always turns up

Answer 7: set

setpoint

setto

Settop

Answer 8: man

henchman

manhunt

manhole

Answer 9: 7 Wonders of the World

18 Holes on a Golf Course

Answer 10: 11 Players in a Cricket Team

5 Toes on a Foot

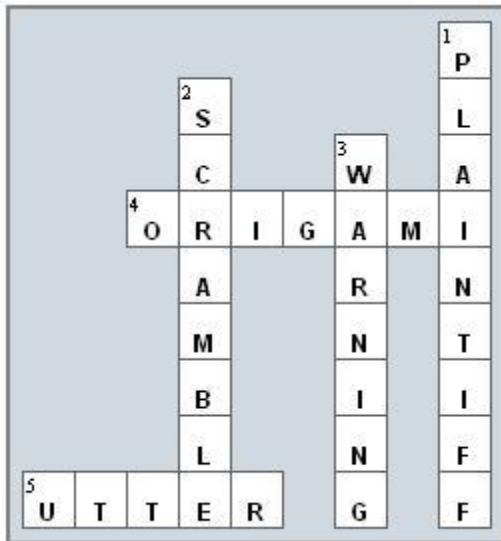
Answer 11: 8 Bits in a Byte

1 Cell in an Amoeba

Answer 12: None.

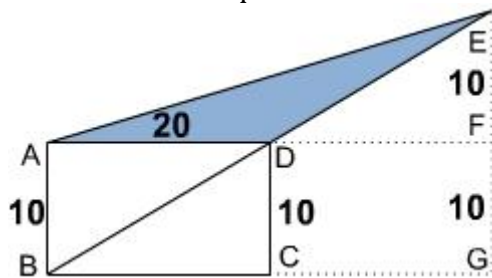
If he had at least one sibling, then his statement that he had ten or more siblings can also be true and vice versa. "I have less than ten siblings" can be true by itself if he and only if he had no sisters.

Answer13:



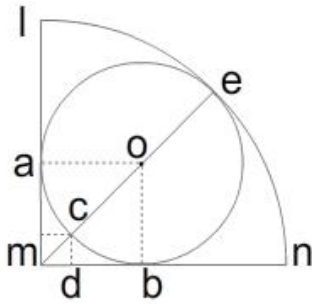
Answer 14: Possible words are:
trainer
retrain
terrain

Answer 15: 100 sq.units



$AD = BC = 200/10 = 20$ sq. units
 extend AD and BC as shown in the figure.
 Triangle BCD and Triangle BEG are similar
 $BE = (1/2) * BE$
 Hence, $GE = 2 * CD = 2 * 10 = 20$ units
 $FG = 10$ units
 Hence, $EF = 20 - 10 = 10$ units
 Hence, area of Triangle = $(1/2) * AD * EF = (1/2) * 20 * 10$
 = 100 sq.units

Answer 16: 0.83 m.



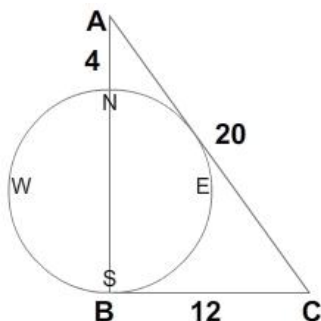
In the figure, $me = 2m$
 Let $oe = r$
 $cm = 2 - 2r$
 Also,
 $\text{angle } omb = 45 \text{ degrees.}$
 hence, $om = r * \text{sqrt } 2 = 1.414 r$
 $cm = 1.414r - r = 0.414r$
 hence, $2 - 2r = 0.414r$
 $2.414r = 2$
 $r = 2/2.414 = 0.83m$

Answer 17: 80 degrees
 $\text{Angle } prq = 180 - 80 = 100 \text{ degrees}$
 $\text{angle } sru = 360 - (\text{angle } srp + \text{angle } urq + \text{angle } prq)$
 $= 360 - (90 + 90 + 100)$
 $= 80 \text{ degrees.}$

Answer 18: 100
 The expression translates to : $10 - (44 * 48 / ((11 * 12) + 4)) - 9 * 10 = -100$

Answer 19: 100
 The expression translates to : $(22 + 9 - 8 * 8 / 7 + 1 / 7 - 2 + 30) * 2 = 100$

Answer 20: 12 m.
 Consider the figure:



$AN = 4$, $BC = 12$, $\text{angle } S = 90 \text{ degrees.}$ If we use Pythagorean triplets, we see the (12,16,20) triplet which is based on the basic (3,4,5) triplet.
 Hence, $AB = 16$, $BC = 12$ and $AC = 20$.
 Thus, $NS = AB - AN = 16 - 4 = 12m$

Solutions of Online Quiz #49

Answer 1: Dusseldorf

Free - 10 9 5 5

Freud - 10 9 5 2 7

Answer 2: Lancaster

CLAN - 4 1 5 3

ARC - 2 9 4

Answer 3: LUXEMBOURG

BELL - 6411

Answer 4:

Sweepstake

Seniority

Matriculate

Unlimited

Answer 5: Though no one can go back and make a brand new start, anyone can start from now and make a brand new ending.

A rich man's joke is always funny.

Answer 6: I'm not telling you it is going to be easy - I'm telling you it's going to be worth it.

Things turn out best for those who make the best of the way things turn out.

Answer 7: Super

Supermarket

Supernatural

Supercede

Answer 8: under

undertone

underdog

underdevelop

Answer 9: 9 lives of a Cat

50 years in a Golden Jubilee

Answer 10: 100 Cents in a Dollar

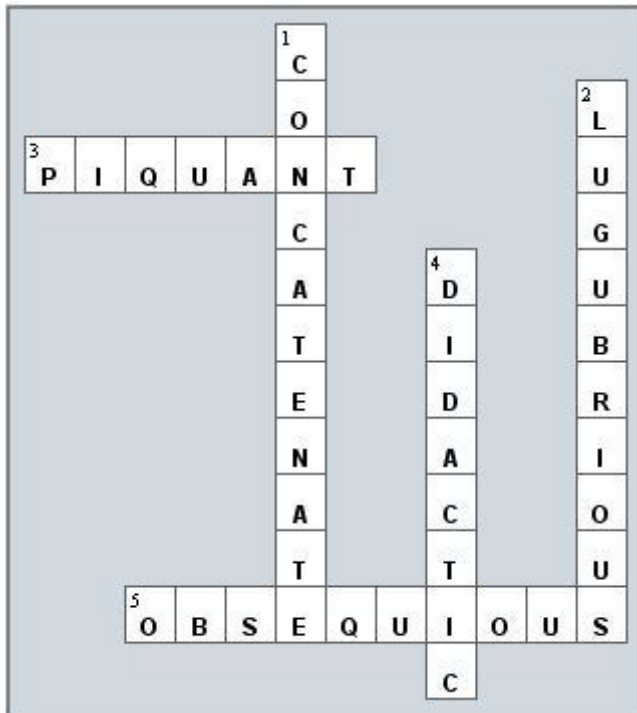
2 Wheels on a Bicycle

Answer 11: 2 Sides to Every Story

24 Spokes of the Ashoka Chakra

Answer 12: The bar was made of iron.

Answer13:



Answer 14: Possible words are:

- evident
- vented
- veined
- evited
- envied
- endive
- devein

Answer 15: 15.

Here, $S = 180$, $a = -16$, $d = 4$

$$S = [2a + (n-1)d]n/2$$

$$180 = [-32n + 4(n-1)n]/2$$

$$4n^2 - 36n - 360 = 0$$

$$n^2 - 9n - 90 = 0$$

$$(n-15)(n+6) = 0$$

n cannot be -6

Hence, $n = 15$

Answer 16: 45 kg.

The total weight of the 83 boys = $83 * 72 = 5976$ kg.

The total weight of the first 69 boys = $69 * 69 = 4761$ kg.

The total weight of the last 13 boys = $13 * 90 = 1170$ kg.

The weight of the 70th boy = $5976 - (4761 + 1170) = 45$ kg.

Answer 17: 615

The ratio of men to women = 5 : 4

The ratio of dogs to men = 3 : 4

On taking the L.C.M., we get

Dogs : Men : Women = 15 : 20 : 16

There are 656 women. Hence, the common ratio is $(656/16 =)$ 41.

Hence, the number of dogs = $41 * 15 = 615$.

Answer 18: 38.5 sq.cm

Area of the peach region = area of the trapezium - area of the quarter circle.

$$= (1/2)*(7+15)*7 - (1/4)*(22/7)*7*7$$

$$= 77 - 38.5$$

$$= 38.5 \text{ sq.cm.}$$

Answer 19: -400

The expression translates to:

$$12/3 - 2*25 - 2 + 12 - 13*112/4 = -400$$

Answer 20: 100

The expression translates to:

$$13*12 - 2*4/2 + 32/4*1 - 45 - 15 = 100$$

Solutions of Online Quiz #51

Answer 1: Shanghai

Global Alliance for Improved Nutrition – 5784 - GAIN

Answer 2: Budapest

An ancient Roman trumpet-like instrument - 8214 -TUBA

Answer 3: Amsterdam

An alcoholic drink made by fermenting honey and water – 2587 - MEAD

Answer 4: P.

Answer 5: Between T & R.

Answer 6: U, Q, P, T, S, R.

Detailed explanation:

We know that S was on Friday. P was immediately before T. Hence, their order was PT. T wasn't on the last day. Q was immediately after U. Hence, their order was UQ. Q could not immediately precede S. So, U & Q were hosted on Monday & Tuesday. P & T on Wednesday and Thursday. Hence, R will be held on Saturday. The order is shown in the following table:

Monday	U
Tuesday	Q
Wednesday	P
Thursday	T
Friday	S
Saturday	R

Answer 7:

Pretentious

Magniloquence

Rhetoric

Fustian

Answer 8: Money cannot bring you happiness, but at least you can be miserable in comfort. When money talks, everyone else is silent.

Answer 9: It does not matter whether you are rich or poor, as long as you have got money. If you want to make people laugh, your face must remain serious.

Answer 10: Bed

Bedrock

Bedsread

Featherbed

Answer 11: Clap

Clapboard

Thunderclap

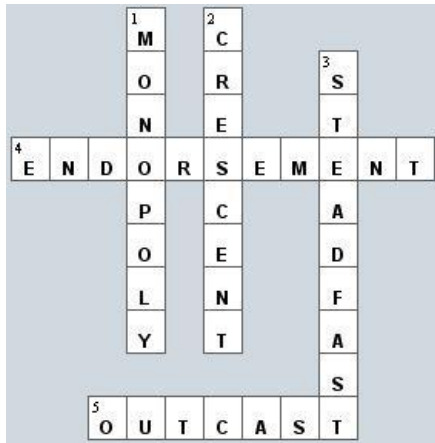
Claptrap

Answer 12: 1000 Words that a Picture is Worth

40 Days and Nights of the Great Flood

Answer 13: 78 Cards in a Tarot Deck
12 Inches on a ruler

Answer 14:



Answer 15: Possible words are:

- tragedy
- gyrated
- gyrate
- grayed
- grated
- yager
- tread
- trade
- terga
- teary
- targe
- tared
- tardy
- retag
- ready
- rayed
- rated
- raged
- gyred
- great
- grate
- grade
- gayer
- gated
- deray
- derat
- deary
- dater

Answer 16: 9 hours.

9 women and 9 hours implies 81 women-hours needed to sweep 9 rooms.

Hence, 9 women-hours are need to sweep one room.

Hence, 7 rooms require $(7 \times 9 =)$ 63 women-hours.

Hence, 7 women will require 9 hours.

Answer 17: Rs. 108

Let the number of apples be x & the number of pears be y .

Hence, $x + y = 21$ (1)

$8x + 4y = 144$ (2)

Multiplying eqn. (1) by 4 and subtracting it from equation (2), we get

$4x = 60$

Hence, $x = 15$

Hence, $y = 6$

If the number of apples and pears was interchanged,

$4x + 8y = 4 \times 15 + 8 \times 6 = 60 + 48 = 108$

Answer 18: 531.23 sq.cm.

Since angle POQ = 60 degrees, the triangle is an equilateral triangle.

Area of the purple region = area of the circle - area of the triangle = $(\frac{22}{7}) \times 14 \times 14 - (\frac{\sqrt{3}}{4} \times 14 \times 14 = 616 - 84.77 = 531.23$ sq.cm.

Answer 19: 51

The expression translates to:

$19 \times 10 - 4 \times \frac{22}{2} + 49 \div 7 \times 1 - 85 - 17 = 51$

Answer 20: 207

The expression translates to:

$7 \times \frac{5}{2} \times 4 \div 2 - 6 \div 6 \times 22 - 2 \times 55 + 6 \times 48 + 4 \times 4 = 207$

Solutions of Online Quiz #53

Answer 1: BARCELONA
7-3-4-2 – ORCA

Answer 2: Birmingham
10 9 5 4 – MAIM

Answer 3: Yorkshire
5475 - SKIS

Answer 4: 3375 1728 729 1331 343.

Answer 5: 1728 125 1000 27 512.

Answer 6: 40 55 88 30 96.

Detailed explanation:

Step 1: Square of the sum of the digits of Input

Step 2: Every element is subtracted from the element to its immediate right

Step 3: (Step 2 * 2) + 1

Step 4: Step 3 - 4

Step 5: Cube of the sum of the digits of Step 4

Answer 7:

Expedition

Investigation

Dimension

Liability

Answer 8:

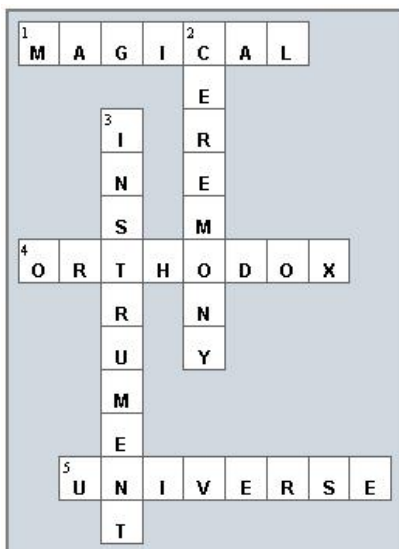
Accessory

Solidarity

Fashionable

Installation

Answer 9:



Answer 10: Possible words are:

generic
cringe
cering
renig
reign
niece
nicer
green
genre
genie
genic

Answer 11: 88 piano keys

4 quarts in a gallon or 4 quadrants in a graph

Answer 12: 7 colours in a rainbow

21 Points in Black Jack

Answer 13: 6 Pockets on a Pool Table

0 legs on a snake

Answer 14:



Answer 15: Possible words are: tenured, retuned, denture

Answer 16: (1/35).

Let x be 4a & y be 5a.

Replacing that in the expression, we get $(36a - 35a)/(20a + 15a) = (a/35a) = (1/35)$.

Answer 17: Rs. 80

Let the price of the shirt be x & hence that of the pant is $1.15x$.

Thus, $x + 1.15x = 172$

$2.15x = 172$

$x = (172/2.15) = 80$

Answer 18: 3%

Total cost price = $50 * 97 + 30 * 5 = 5000$

Total selling price = $50 * 97 = 4850$

Discount percentage = $(5000 - 4850)/5000 * 100 = 150/5000 * 100 = 3\%$

Answer 19: 7

$25200 = 2 * 2 * 2 * 2 * 3 * 3 * 5 * 5 * 7$

The only unpaired factor is 7. If we multiply seven, we will have a perfect square.

Answer 20: -50

The expression can be expressed as (1, 2, 3... upto 25 terms) - (3, 4, 5.. upto 25 terms)

In the first AP, $a = 1$, $d = 1$, $n = 25$

Hence, $s = (25/2) * (2 + 24) = 325$

In the second AP, $a = 3$, $d = 1$, $n = 25$

Hence, $s = (25/2) * (6 + 24) = 375$

Hence, the value of the expression is : $325 - 375 = -50$

Solutions of Online Quiz #55

Answer 1: Ahmedabad

A small circular or globular body - 7465 - BEAD

Answer 2: GREENWICH

A shout of encouragement - 89342 - CHEER

A small energetic songbird - 6235 - WREN

Answer 3: YUGOSLAVIA

A small glass container - 8 9 10 6 - VIAL

To kill by violence - 5 6 7 1 - SLAY

Answer 4: 26 22 14 24 30.

Answer 5: 81 49 25 36 49.

Answer 6: 11 17 19 18 15.

Step I: The first element = Input * 2 - 8, the second element = Input * 2 - 7 and so on

Step II: The first element = Step I + 2, the second element = Step I + 3 and so on

Step III: Step II * 2

Step IV: Step III - Input

Step V: Square of sum of digits

Answer 7:

Gratitude

Definition

Customer

Intrigue

Answer 8:

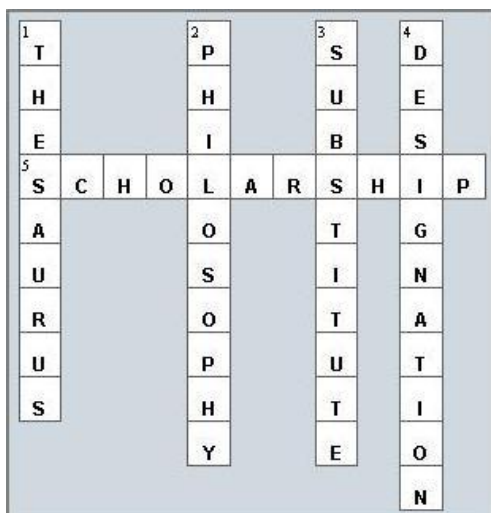
Product

Generation

Parliament

Scientific

Answer 9:



Answer 10: Possible words are:
repaint
pertain
painter

Answer 11: 746 Watts is 1 Horsepower
8 pints in a gallon

Answer 12: 23 pairs of chromosomes in the Human Body
9 innings in a base ball game

Answer 13: 6 sides on a dice
21 is the sum of numbers on a dice

Answer 14: Possible words are:
flitted
titled
tilted
lifted
flited
fitted

Answer 15: Rs. 71,74,453.
This is a G.P. with $a = 1$ and $r = 3$.
Sum of the first 15 elements in the GP = $a(r^n - 1)/(r - 1) = 1(3^{15} - 2)/(3-1) = 71,74,453$.

Answer 16: The Eldest received Rs. 6800, The Middle child received 10,200 and the youngest received Rs. 20,400.

Let the Eldest Brother's share be x , the Second brother's be y and the youngest's be z .

$$x + y + z = 37,400$$

Also,

$$(1/2) * x = (1/3) * y = (1/6) * z$$

Thus,

$$y = (1/2) * z$$

$$x = (1/3) * z$$

Thus,

$$(1/2) * z + (1/3) * z + z = 37400$$

$$3z + 2z + 6z = 37400 * 6$$

$$z = 37400 * 6 / 11 = 20,400$$

$$y = (1/2) * z = 10,200$$

$$x = (1/3) * z = 6,800$$

Answer 17: 126 sq.cm.

Volume of cube = side^3

Hence, side = $\sqrt[3]{27} = 3$

Length of the new figure = $3 + 3 + 3 = 9$ cm

Breadth and Height of the new figure = 3 cm

Hence,

$$\text{surface area} = 2(lb + bh + lh) = 2(9*3 + 3*3 + 9*3) = 2*63 = 126$$

Answer 18: 24 cm.

length of one side of the triangle = $16(\sqrt{3})$

Height of an equilateral triangle = $(\sqrt{3})/2 * \text{side}$
 $= 16 * \sqrt{3} / 2 = 24$.

Answer 19: A lie travels round the world while truth is putting her boots on.

A new broom sweeps clean, but the old brush knows all the corners.

Answer 20: A prudent man does not make the goat his gardener.

Do not blame God for having created the tiger, but thank him for not having given it wings.

Solutions of Online Quiz #57

Answer 1: GUATEMALA

Iron, silver, gold, copper - 6 5 4 7 8 - M E T A L

Answer 2: SINGAPORE

Organism belonging to Phylum Porifera - 167349 - SPONGE

Answer 3: VENEZUELA

Calf meat - 1298 - VEAL

Answer 4: 169 196 144 49 121.

Answer 5: 16 64 144 169 25.

Answer 6: 12 33 26 19 37.

Detailed explanation:

Step 1 : Input * 2 + 1

Step 2 : 1st element = Step 1 + 6, 2nd element = Step 1 + 7 and so on

Step 3 : Digits of Step 2 are reversed

Step 4 : Step 3 + Input

Step 5 : Square of the sum of the digits

Answer 7: serious

gelding

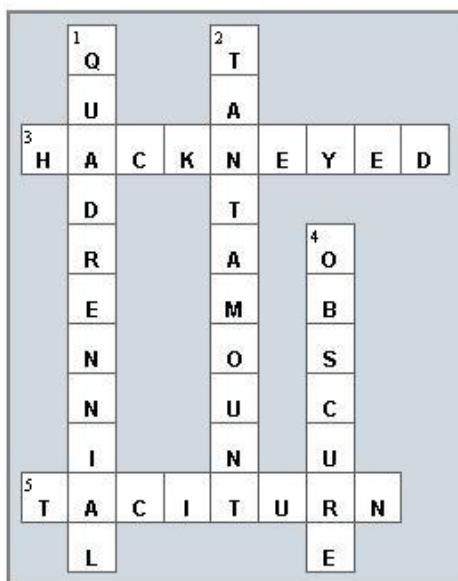
recover

Answer 8: faceoff

tesseract

window

Answer 9:



Answer 10: Possible words are:

farther
trefah
rather
rafter
hafter
frater
father

Answer 11:

Equivalent
Habitual
Significant
Chromosome

Answer 12:

Strategy
Stimulate
Internet
Dictionary

Answer 13: Possible words are:

breathe
reheat
rebate
hereat
heater
breath
bertha
berate
beater
bather
aether

Answer 14: 5/12

The prime numbers less than 12 are 2,3,5,7,11

The 36 possible combinations possible on rolling 2 fair dice are:

(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6),
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 15 combinations result in prime numbers:

(1,1), (1,2), (1,4), (1,6),
(2,1), (2,3), (2,5),
(3,2), (3,4)
(4,1), (4,3)
(5,2), (5,6)
(6,1), (6,5)

Hence, the probability of getting a prime number is: $15/36 = 5/12$

Answer 15: $1/6$

A number that is divisible by 2 & 3 is divisible by 6.

The 36 possible combinations possible on rolling 2 fair dice are:

(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6),
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 6 combinations are divisible by 6:

(1,5), (2,4), (3,3), (4,2), (5,1), (6,6)

Hence, the probability of getting a number divisible by 2 & 3 is: $6/36 = 1/6$

Answer 16: $2/3$

Numbers divisible by 2 or 3 will include numbers divisible by 2 only, numbers divisible by 3 only and numbers divisible by both, 2 & 3.

The 36 possible combinations possible on rolling 2 fair dice are:

(1,1), (1,2), (1,3), (1,4), (1,5), (1,6),
(2,1), (2,2), (2,3), (2,4), (2,5), (2,6),
(3,1), (3,2), (3,3), (3,4), (3,5), (3,6),
(4,1), (4,2), (4,3), (4,4), (4,5), (4,6),
(5,1), (5,2), (5,3), (5,4), (5,5), (5,6),
(6,1), (6,2), (6,3), (6,4), (6,5), (6,6)

Of these, the following 24 combinations are divisible by 2 or 3 or both, 2 & 3:

(1,1), (1,2), (2,1), (1,3), (2,2),
(3,1), (1,5), (2,4), (3,3), (4,2),
(5,1), (2,6), (3,5), (4,4), (5,3),
(6,2), (3,6), (4,5), (5,4), (6,3),
(4,6), (5,5), (6,4), (6,6)

Hence, the probability of getting a number divisible by 2 or 3 is: $24/36 = 2/3$

Answer 17: A dog is the only thing on earth that loves you more than you love yourself.

Life is what happens to you while you're busy making other plans.

Answer 18: The man who smiles when things go wrong has thought of someone to blame it on.

You can be young without money but you can't be old without it.

Answer 19: PEGHDD and DQZRUZM.

Answer 20: KCQVCT and QNYXC

Explanation: The letters in odd positions are represented by letters that immediately succeed them in the English language while the letters in even positions are represented by letters that immediately precede them.

Solutions of Online Quiz #59

Answer 1: INFLUENZA

A small, mischievous entity considered to have magical powers - 6 4 3 – ELF

Answer 2: CHICKENPOX

To repeat or imitate – 6429 - ECHO

Answer 3: ARTHRITIS

A sleeved garment – 94657 - SHIRT

Answer 4: 65 98 159 147 197.

Answer 5: 34 48 104 123 189.

Answer 6: 22 13 34 21 17.

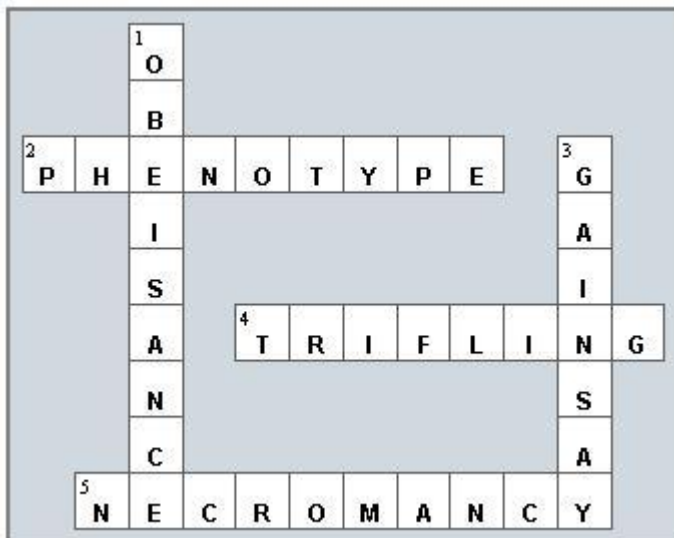
Answer 7: Air.

airship
airbrush
airfield

Answer 8: Book.

bookmobile
matchbook
yearbook

Answer 9:



Answer 10: The two most common elements in the world are hydrogen and stupidity.
Only your real friends tell you when your face is dirty.

Answer 11: If you spend your whole life waiting for the storm, you will never enjoy the sunshine.
The only time you run out of chances is when you stop taking them.

Answer 12: Never wrestle with a pig-you both get dirty but the pig likes it.
The walls we build around us to keep out the sadness also keep out the joy.

Answer 13: CWVMSKZA and TVUESMLZ.

Answer 14: KNOWLEDGE and AWARENESS.

Explanation: The first letter is substituted by the letter immediately succeeding it. The second letter is substituted by the letter succeeding it after 2 positions and so on.

Answer 15: Rs. 14,000.

Let the cost price be Rs. x

Then, the selling price = $1.3x$

Thus,

$$1.3x = 18200$$

$$x = 14000$$

Answer 16: 144 m.

Let the common ratio be x .

Then,

$$12x * 8x * 7x = 1161216$$

$$\text{Hence, } x^3 = 1161216/672$$

$$x = 12$$

Hence, the length is $12*12 = 144$ m.

Answer 17: 73.18 (approx.)

The total score of 45 students was $45 * 75 = 3375$

The total score of the 12 chosen students was $12 * 80 = 960$

The score of the remaining $33 = (3375 - 960)/33 = 73.18$

Answer 18: Mayonnaise.

Through thick and thin.

Answer 19: Head in the clouds.

Put on weight.

Answer 20: Space Invaders.

One thing after another.

Solutions of Online Quiz #61

Answer 1: PENTAGRAM

a portion or division of a whole – 1 5 7 4 – PART

Answer 2: TRAPEZOID

To reverse the course of events – Turn the 1895 - TIDE

Answer 3: DODECAGON

The head of a faculty, or administrative division in a university – 1469 - DEAN

Answer 4: 89 145 157 160 131.

Answer 5: 107 130 161 153 166.

Answer 6: 19 18 29 14 8.

Detailed explanation:

STEP 1 : All elements are sequentially shifted left by one position

STEP 2 : The order of elements is reversed

STEP 3 : Step 2 * 2 + 1

STEP 4 : Step 3 is arranged in ascending order

STEP 5 : Input + Step 1 + Step 2 + Step 3 + Step 4

Answer 7: exile

tuft

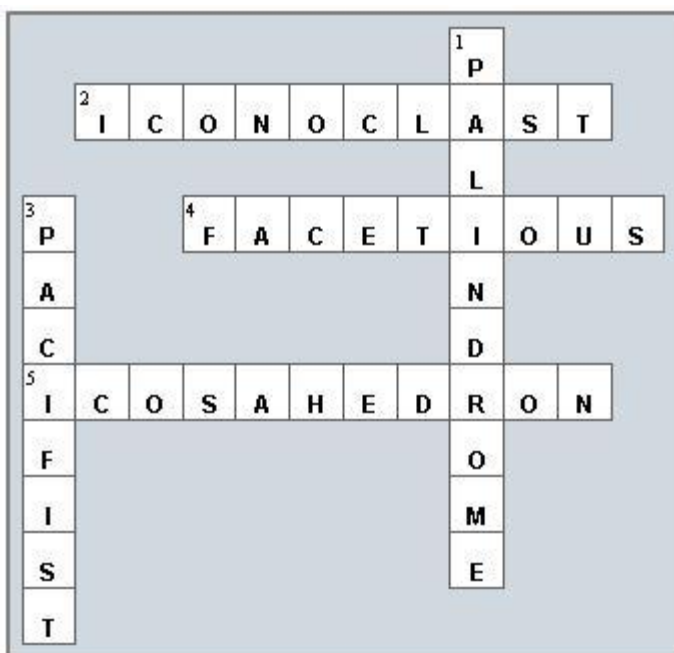
talent

Answer 8: blurb

emerge

remember

Answer 9:



Answer 10: One can never consent to creep when one feels an impulse to soar.
Laughter is the shock absorber that eases the blows of life.

Answer 11: When everything's coming your way, you are in the wrong lane.
Nothing can confound a wise man more than laughter from a dunce.

Answer 12: If you can't see the bright side of life, polish the dull side.
You only live once, but if you work it right, once is enough.

Answer 13:
a. tranquility
b. benevolence

Answer 14:
a. analogous
b. austere

Answer 15: 56 litres.
Out of the 40 litres, 24 litres are milk and 16 litres are chocolate syrup.
In the new ratio, the 16 litres correspond to 1.
Hence, 80 litres of milk makes the ratio 5:1.
Hence, $80 - 24 = 56$ litres of milk need to be added.

Answer 16: $14/33$.
The probability that both the marbles are black = $8/12 * 7/11 = 14/33$

Answer 17: 71.54%
Weighted average = $(200*0.6 + 300*0.8 + 150*0.7)/(200+300+150) = 71.54\%$

Answer 18: Summit.
Looking back over time.

Answer 19: Thickening plot.
Sweet sixteen.

Answer 20: Exterminate.
Tribal Chief.