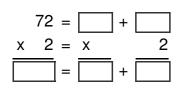# Lesson: Partial Product Algorithm with One Digit

Practice Set: Multiply one-digit times two-digits with expanded notation
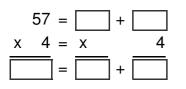
Question 1:

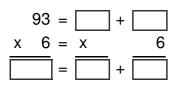Expand the numbers and multiply.

$$72 = \boxed{} + \boxed{}$$
$$\text{x} \quad 2 = \text{x} \qquad 2$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 2:

Expand the numbers and multiply.

$$57 = \boxed{} + \boxed{}$$
$$\text{x} \quad 4 = \text{x} \qquad 4$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 3:

Expand the numbers and multiply.

$$93 = \boxed{} + \boxed{}$$
$$\text{x} \quad 6 = \text{x} \qquad 6$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 4:

Expand the numbers and multiply.

$$49 = \boxed{} + \boxed{}$$
$$\text{x} \quad 8 = \text{x} \qquad 8$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 5:

Expand the numbers and multiply.

$$38 = \boxed{} + \boxed{}$$
$$\text{x} \quad 9 = \text{x} \qquad 9$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 6:

Expand the numbers and multiply.

$$78 = \boxed{} + \boxed{}$$
$$x \quad 7 = x \qquad\qquad 7$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 7:

Expand the numbers and multiply.

$$95 = \boxed{} + \boxed{}$$
$$x \quad 3 = x \qquad\qquad 3$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 8:

Expand the numbers and multiply.

$$64 = \boxed{} + \boxed{}$$
$$x \quad 5 = x \qquad\qquad 5$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 9:

Expand the numbers and multiply.

$$59 = \boxed{} + \boxed{}$$
$$x \quad 6 = x \qquad\qquad 6$$
$$\boxed{} = \boxed{} + \boxed{}$$

Question 10:

Expand the numbers and multiply.

$$24 = \boxed{} + \boxed{}$$
$$x \quad 2 = x \qquad\qquad 2$$
$$48 = \quad 40 \quad + \quad 8$$

Practice Set: Multiply one-digit times two-digits with partial product algorithm

Question 1:

Multiply:

$$72$$
$$\text{x} \quad 3$$

	(3 × 2)
+	(3 × 70)

Question 2:

Multiply:

$$49$$
$$\text{x} \quad 5$$

	(5 × 9)
+	(5 × 40)

Question 3:

Multiply:

$$95$$
$$\text{x} \quad 2$$

	(2 × 5)
+	(2 × 90)

Question 4:

Multiply:

$$22$$
$$\text{x} \quad 3$$

	(3 × 2)
+	(3 × 20)

$$66$$

Question 5:

Multiply:

$$
\begin{array}{r}
65 \\
\times \quad 4 \\
\hline
\end{array}
$$

☐ (4 × 5)

+ ☐ (4 × 60)

☐

Question 6:

Multiply:

$$
\begin{array}{r}
56 \\
\times \quad 4 \\
\hline
\end{array}
$$

☐ (4 × 6)

+ ☐ (4 × 50)

☐

Question 7:

Multiply:

$$
\begin{array}{r}
13 \\
\times \quad 8 \\
\hline
\end{array}
$$

☐ (8 × 3)

+ ☐ (8 × 10)

☐

Question 8:

Multiply:

$$
\begin{array}{r}
19 \\
\times \quad 6 \\
\hline
\end{array}
$$

☐ (6 × 9)

+ ☐ (6 × 10)

☐

Question 9:

Multiply:

$$
\begin{array}{r}
30 \\
\times \quad 7 \\
\hline
\end{array}
$$

$\boxed{}$ (7×0)

$+ \boxed{}$ (7×30)

$\boxed{}$

Question 10:

Multiply:

$$
\begin{array}{r}
42 \\
\times \quad 6 \\
\hline
\end{array}
$$

$\boxed{}$ (6×2)

$+ \boxed{}$ (6×40)

$\boxed{}$

Practice Set: Multiply one-digit times three-digits with expanded form

Question 1:

Expand numbers and multiply.

597 = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

x   3 = x $\boxed{}$

$\boxed{}$ = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

Question 2:

Expand numbers and multiply.

543 = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

x   2 = x $\boxed{}$

$\boxed{}$ = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

Question 3:

Expand numbers and multiply.

494 = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

x   8 = x $\boxed{}$

$\boxed{}$ = $\boxed{}$ + $\boxed{}$ + $\boxed{}$

Question 4:

Expand numbers and multiply.

$$787 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 5 = \times \qquad\qquad\qquad \boxed{}$$
$$\boxed{} = \boxed{} + \boxed{} + \boxed{}$$

Question 5:

Expand numbers and multiply.

$$892 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 4 = \times \qquad\qquad\qquad \boxed{}$$
$$\boxed{} = \boxed{} + \boxed{} + \boxed{}$$

Question 6:

Expand numbers and multiply.

$$462 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 3 = \times \qquad\qquad\qquad \boxed{}$$
$$\boxed{} = \boxed{} + \boxed{} + \boxed{}$$

Question 7:

Expand numbers and multiply.

$$132 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 2 = \times \qquad\qquad\qquad\qquad 2$$
$$264 = \boxed{} + \boxed{} + \boxed{}$$

Question 8:

Expand numbers and multiply.

$$680 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 7 = \times \qquad\qquad\qquad \boxed{}$$
$$\boxed{} = \boxed{} + \boxed{} + \boxed{}$$

Question 9:

Expand numbers and multiply.

$$323 = \boxed{} + \boxed{} + \boxed{}$$
$$\times \quad 6 = \times \qquad\qquad\qquad \boxed{}$$
$$\boxed{} = \boxed{} + \boxed{} + \boxed{}$$

Question 10:

Expand numbers and multiply.

437 = ⬚ + ⬚ + ⬚

x   5 = x   ⬚

⬚ = ⬚ + ⬚ + ⬚

Practice Set: Multiply one-digit times three-digits with partial product algorithm

Question 1:

Multiply:

```
     597
 x     2
```
⬚   (2 × 7)
⬚   (2 × 90)
+ ⬚   (2 × 500)
⬚

Question 2:

Multiply:

```
     387
 x     6
```
⬚   (6 × 7)
⬚   (6 × 80)
+ ⬚   (6 × 300)
⬚

Question 3:

Multiply:

```
     233
 x     8
```
⬚   (8 × 3)
⬚   (8 × 30)
+ ⬚   (8 × 200)
⬚

Question 4:

Multiply:

892
x   3

	(3 × 2)
	(3 × 90)
+		(3 × 800)

Question 5:

Multiply:

293
x   4

	(4 × 3)
	(4 × 90)
+		(4 × 200)

Question 6:

Multiply:

632
x   3

	(3 × 2)
	(3 × 30)
+		(3 × 600)

Question 7:

Multiply:

132
x   2

	(2 × 2)
	(2 × 30)
+ | | (2 × 100)

264

Question 8:

Multiply:

680
x   8
_____
| _____ | (8 × 0)
| _____ | (8 × 80)
+ | _____ | (8 × 600)
_____
| _____ |

Question 9:

Multiply:

934
x   5
_____
| _____ | (5 × 4)
| _____ | (5 × 30)
+ | _____ | (5 × 900)
_____
| _____ |

Question 10:

Multiply:

826
x   5
_____
| _____ | (5 × 6)
| _____ | (5 × 20)
+ | _____ | (5 × 800)
_____
| _____ |

Practice Set: Multiply one-digit times four-digits with expanded notation

Question 1:

Expand numbers and multiply.

1,312 = | _____ | + | _____ | + | _____ | + | _____ |

x   3 = x _____ 3

| _____ | = | _____ | + | _____ | + | _____ | + | _____ |

Question 2:

Expand numbers and multiply.

6,470 = [ ] + [ ] + [ ] + [ ]

× 5 = × _____ 5

[ ] = [ ] + [ ] + [ ] + [ ]

Question 3:

Expand numbers and multiply.

3,635 = [ ] + [ ] + [ ] + [ ]

× 4 = × _____ 4

[ ] = [ ] + [ ] + [ ] + [ ]

Question 4:

Expand numbers and multiply.

7,376 = [ ] + [ ] + [ ] + [ ]

× 6 = × _____ 6

[ ] = [ ] + [ ] + [ ] + [ ]

Question 5:

Expand numbers and multiply.

2,209 = [ ] + [ ] + [ ] + [ ]

× 6 = × _____ 6

[ ] = [ ] + [ ] + [ ] + [ ]

Question 6:

Expand numbers and multiply.

5,712 = [ ] + [ ] + [ ] + [ ]

× 2 = × _____ 2

[ ] = [ ] + [ ] + [ ] + [ ]

Question 7:

Expand numbers and multiply.

4,356 = ☐ + ☐ + ☐ + ☐

× 7 = × _____ 7

☐ = ☐ + ☐ + ☐ + ☐

Question 8:

Expand numbers and multiply.

5,481 = ☐ + ☐ + ☐ + ☐

× 4 = × _____ 4

☐ = ☐ + ☐ + ☐ + ☐

Question 9:

Expand numbers and multiply.

7,201 = ☐ + ☐ + ☐ + ☐

× 3 = × _____ 3

☐ = ☐ + ☐ + ☐ + ☐

Question 10:

Expand numbers and multiply.

4,887 = ☐ + ☐ + ☐ + ☐

× 3 = × _____ 3

☐ = ☐ + ☐ + ☐ + ☐

Practice Set: Multiply one-digit times four-digits with partial product algorithm

Question 1:

Multiply:

```
    2,427
  x     8
  ┌──────┐
  │      │  (8 × 7)
  ├──────┤
  │      │  (8 × 20)
  ├──────┤
  │      │  (8 × 400)
+ ├──────┤
  │      │  (8 × 2,000)
  ├──────┤
  │      │
  └──────┘
```

Question 2:

Multiply:

1,336
x   4

	(4 × 6)
	(4 × 30)
	(4 × 300)
+		(4 × 1,000)

Question 3:

Multiply:

6,719
x   3

	(3 × 9)
	(3 × 10)
	(3 × 700)
+		(3 × 6,000)

Question 4:

Multiply:

4,635
x   2

	(2 × 5)
	(2 × 30)
	(2 × 600)
+		(2 × 4,000)

Question 5:

Multiply:

3,047
x   5

	(5 × 7)
	(5 × 40)
	(5 × 0)
+	(5 × 3,000)

Question 6:

Multiply:

7,154
x   3

	(3 × 4)
	(3 × 50)
	(3 × 100)
+	(3 × 7,000)

Question 7:

Multiply:

5,465
x   6

	(6 × 5)
	(6 × 60)
	(6 × 400)
+	(6 × 5,000)

Question 8:

Multiply:

$$2,528$$
$$\text{x} \quad 6$$

☐	(6 × 8)
☐	(6 × 20)
☐	(6 × 500)
+ ☐	(6 × 2,000)
☐	

Question 9:

Multiply:

$$8,045$$
$$\text{x} \quad 4$$

☐	(4 × 5)
☐	(4 × 40)
☐	(4 × 0)
+ ☐	(4 × 8,000)
☐	

Question 10:

Multiply:

$$3,235$$
$$\text{x} \quad 5$$

☐	(5 × 5)
☐	(5 × 30)
☐	(5 × 200)
+ ☐	(5 × 3,000)
☐	

Lesson: Standard Algorithm with One Digit

Practice Set: Multiply one-digit number by a two-digit number with no carryover

Question 1:

Multiply:

44 x 2 = ☐

Question 2:

Multiply:

$$
\begin{array}{r}
14 \\
\times \quad 2 \\
\hline
\end{array}
$$

Question 3:

Multiply:

$$
\begin{array}{r}
43 \\
\times \quad 3 \\
\hline
\end{array}
$$

Question 4:

Multiply:

24 x 2 = ☐

Question 5:

Multiply:

$$
\begin{array}{r}
21 \\
\times \quad 3 \\
\hline
\end{array}
$$

Question 6:

Multiply:

13 x 3 = ☐

Question 7:

Multiply:

$$
\begin{array}{r}
21 \\
\times \quad 1 \\
\hline
\end{array}
$$

Question 8:

Multiply:

31 x 3 = ☐

Question 9:

Multiply:

```
        22
x        3
┌─────────┐
│         │
└─────────┘
```

Question 10:

Multiply:

11 x 3 = ┌─────────┐
         │   │
         └─────────┘

Practice Set: Multiply one-digit number by a three-digit number with no carryover

Question 1:

Multiply:

```
       322
x        3
┌─────────┐
│         │
└─────────┘
```

Question 2:

Multiply:

```
       231
x        3
┌─────────┐
│         │
└─────────┘
```

Question 3:

Multiply:

```
       142
x        2
┌─────────┐
│         │
└─────────┘
```

Question 4:

Multiply:

```
       131
x        3
┌─────────┐
│         │
└─────────┘
```

Question 5:

Multiply:

```
      433
x       2
    ┌─────┐
    │     │
    └─────┘
```

Question 6:

Multiply:

```
      214
x       2
    ┌─────┐
    │     │
    └─────┘
```

Question 7:

Multiply:

```
      413
x       2
    ┌─────┐
    │     │
    └─────┘
```

Question 8:

Multiply:

```
      422
x       2
    ┌─────┐
    │     │
    └─────┘
```

Question 9:

Multiply:

```
      303
x       3
    ┌─────┐
    │     │
    └─────┘
```

Question 10:

Multiply:

```
      311
x       3
    ┌─────┐
    │     │
    └─────┘
```

Practice Set: Multiply one-digit number by a four-digit number with no carryover

Question 1:

Multiply:

```
      1,434
x         2
_____
```

Question 2:

Multiply:

```
      6,123
x         2
_____
```

Question 3:

Multiply:

```
      2,132
x         2
_____
```

Question 4:

Multiply:

```
      1,002
x         4
_____
```

Question 5:

Multiply:

```
      3,214
x         2
_____
```

Question 6:

Multiply:

```
      7,201
x         4
  _____
  [        ]
```

Question 7:

Multiply:

```
      5,314
x         2
  _____
  [        ]
```

Question 8:

Multiply:

```
      1,021
x         4
  _____
  [        ]
```

Question 9:

Multiply:

```
      4,320
x         3
  _____
  [        ]
```

Question 10:

Multiply:

```
      1,202
x         4
  _____
  [        ]
```

Practice Set: Multiply one-digit number by a multi-digit number with no carryover word problems

Question 1:

A volleyball club has 7 volleyball teams, each of which has 11 players. How many volleyball players belong

to the club?

[   ] players

Question 2:

There is $2,134 in a savings account. If next year the money is two times as much, what is the total amount in the savings account?

$ [____]

Question 3:

Brigitte cut 3 pieces of ribbon, each of which was 23 inches long. How much ribbon did she use?

[____] inches

Question 4:

Rapunzel's hair grows 3 feet every year. Right now, her hair is 6 feet long. How long will her hair be in 30 years?

[____] feet

Question 5:

On average, 900 flights arrive at an airport every day. How many flights arrive at the airport in 7 days?

[____] flights

Question 6:

The admission cost for a student to the Frontier Culture Museum is $6.00. If 101 students are attending, what will the total cost be for tickets?

$ [____]

Question 7:

A grocery store removed 511 packs of carrots because of potential food poisoning. Each pack of carrots weighed 9 ounces. What is the total ounces of carrots removed?

[____] ounces

Question 8:

A chocolate cake recipe uses 2,400 grams of sugar. If two cakes are being made, what is the total amount of sugar used?

[____] grams

Question 9:

Twenty-one people brought a chocolate cake to a community potluck dinner. Each cake was split into 8 slices. How many slices of chocolate cake are at the dinner?

[____] slices

Question 10:

A school has 6 sports teams during the fall season, and each team has 20 members. How many fall athletes does the school have?

| | athletes

Practice Set: Multiply a one-digit number by a two-digit number with carryover

Question 1:

Multiply:

```
        18
  x      6
  _____
```

Question 2:

Multiply:

```
        57
  x      9
  _____
```

Question 3:

Multiply:

```
        77
  x      3
  _____
```

Question 4:

Multiply:

```
        34
  x      6
  _____
```

Question 5:

Multiply:

```
        43
  x      9
  _____
```

Question 6:

Multiply:

```
          62
  x        5
  ┌──────────┐
  │          │
  └──────────┘
```

Question 7:

Multiply:

```
          86
  x        5
  ┌──────────┐
  │          │
  └──────────┘
```

Question 8:

Multiply:

```
          19
  x        8
  ┌──────────┐
  │          │
  └──────────┘
```

Question 9:

Multiply:

```
          35
  x        2
  ┌──────────┐
  │          │
  └──────────┘
```

Question 10:

Multiply:

```
          87
  x        2
  ┌──────────┐
  │          │
  └──────────┘
```

Practice Set: Multiply a one-digit number by a three-digit number with carryover

Question 1:

Multiply:

```
        864
  x       6
  ┌──────────┐
  │          │
  └──────────┘
```

Question 2:

Multiply:

181 × 4 = [   ]

Question 3:

Multiply:

298 × 4 = [   ]

Question 4:

Multiply:

```
        420
  x       7
  ┌──────────┐
  │          │
  └──────────┘
```

Question 5:

Multiply:

```
        589
  x       6
  ┌──────────┐
  │          │
  └──────────┘
```

Question 6:

Multiply:

```
        325
  x       4
  ┌──────────┐
  │          │
  └──────────┘
```

Question 7:

Multiply:

273 × 5 = [   ]

Question 8:

Multiply:

350 × 7 = ☐

Question 9:

Multiply:

```
        723
  x       9
  ┌──────────┐
  └──────────┘
```

Question 10:

Multiply:

290 × 3 = ☐

Practice Set: Multiply a one-digit number by a four-digit number with carryover

Question 1:

Multiply:

```
      2,328
  x       6
  ┌──────────┐
  └──────────┘
```

Question 2:

Multiply:

```
      4,712
  x       2
  ┌──────────┐
  └──────────┘
```

Question 3:

Multiply:

```
      4,397
  x       8
  ┌──────────┐
  └──────────┘
```

Question 4:

Multiply:

```
        1,226
x           9
      ┌──────────┐
      │          │
      └──────────┘
```

Question 5:

Multiply:

```
        1,230
x           5
      ┌──────────┐
      │          │
      └──────────┘
```

Question 6:

Multiply:

```
        6,651
x           4
      ┌──────────┐
      │          │
      └──────────┘
```

Question 7:

Multiply:

```
        7,376
x           2
      ┌──────────┐
      │          │
      └──────────┘
```

Question 8:

Multiply:

```
        3,635
x           5
      ┌──────────┐
      │          │
      └──────────┘
```

Question 9:

Multiply:

```
        5,659
x           3
      ┌──────────┐
      │          │
      └──────────┘
```

Question 10:

Multiply:

```
        8,593
  x         7
  _____
  |         |
  |_____|
```

Practice Set: Multiply a one-digit number by a multi-digit number with carryover word problems

Question 1:

Nick delivers 324 newspapers in a day. How many newspapers are delivered in 6 days?

[   ] newspapers

Question 2:

John bought 4 boxes of apples. Twenty-five apples were in each box. How many apples did John buy?

[   ] apples

Question 3:

A store stocks 721 boxes of pens and each box contains 9 pens. How many pens are in stock?

[   ] pens

Question 4:

A forest is home to 5,683 trees. Each tree has two bird nests. How many bird nests are in the forest?

[   ] nests

Question 5:

A hotel charges $139 per night for a room. What is the cost for 6 nights?

$[   ]

Question 6:

Mr. Larsson bought 18 binders for his children, each of which cost $3. How much did he spend on binders?

$[   ]

Question 7:

Each question on a game show is worth 5 points. If a contestant correctly answers 115 questions, how many points will he or she earn?

[   ] points

Question 8:

A high school has chartered 101 clubs. If each club has 6 officers, how many officer positions does the school have?

[____] positions

Question 9:

Tyler worked 40 minutes each day towards cleaning his apartment. If in 6 days the apartment is clean, how much time was spent cleaning?

[____] minutes

Question 10:

There are 9,456 houses in a town. If on average, 5 people live in each house, what is the town's approximate population?

[____] people

Lesson: Multiples of 10, 100, and 1000

Practice Set: Multiply by multiples of 10

Question 1:

Multiply:

```
          6
x        80
[_____]
```

Question 2:

Multiply:

```
         50
x         7
[_____]
```

Question 3:

Multiply:

```
          3
x        90
[_____]
```

Question 4:

Multiply:

```
         40
x         8
   ┌──────────┐
   │          │
   └──────────┘
```

Question 5:

Multiply:

```
          2
x        60
   ┌──────────┐
   │          │
   └──────────┘
```

Question 6:

Multiply:

```
          5
x        20
   ┌──────────┐
   │          │
   └──────────┘
```

Question 7:

Multiply:

```
         30
x         5
   ┌──────────┐
   │          │
   └──────────┘
```

Question 8:

Multiply:

```
          7
x        90
   ┌──────────┐
   │          │
   └──────────┘
```

Question 9:

Multiply:

```
         20
x         8
   ┌──────────┐
   │          │
   └──────────┘
```

Question 10:

Multiply:

```
            4
x          50
      ┌─────────┐
      │         │
      └─────────┘
```

Practice Set: Multiply by multiples of 100

Question 1:

Multiply:

```
          500
x           7
      ┌─────────┐
      │         │
      └─────────┘
```

Question 2:

Multiply:

```
          900
x           8
      ┌─────────┐
      │         │
      └─────────┘
```

Question 3:

Multiply:

```
          400
x           2
      ┌─────────┐
      │         │
      └─────────┘
```

Question 4:

Multiply:

```
          300
x           4
      ┌─────────┐
      │         │
      └─────────┘
```

Question 5:

Multiply:

```
        700
x         3
    ┌─────────┐
    └─────────┘
```

Question 6:

Multiply:

```
        700
x         6
    ┌─────────┐
    └─────────┘
```

Question 7:

Multiply:

```
        100
x         9
    ┌─────────┐
    └─────────┘
```

Question 8:

Multiply:

```
        600
x         9
    ┌─────────┐
    └─────────┘
```

Question 9:

Multiply:

```
        200
x         6
    ┌─────────┐
    └─────────┘
```

Question 10:

Multiply:

```
        800
x         5
    ┌─────────┐
    └─────────┘
```

Practice Set: Multiply by multiples of 1,000

Question 1:

Multiply:

8,000

x   4

_____

|_____|

Question 2:

Multiply:

3,000

x   9

_____

|_____|

Question 3:

Multiply:

6,000

x   5

_____

|_____|

Question 4:

Multiply:

4,000

x   7

_____

|_____|

Question 5:

Multiply:

9,000

x   2

_____

|_____|

Question 6:

Multiply:

```
      4,000
x         8
┌─────────┐
│         │
└─────────┘
```

Question 7:

Multiply:

```
      7,000
x         3
┌─────────┐
│         │
└─────────┘
```

Question 8:

Multiply:

```
      5,000
x         2
┌─────────┐
│         │
└─────────┘
```

Question 9:

Multiply:

```
      2,000
x         4
┌─────────┐
│         │
└─────────┘
```

Question 10:

Multiply:

```
      9,000
x         6
┌─────────┐
│         │
└─────────┘
```

Lesson: Partial Product Algorithm with Two Digits

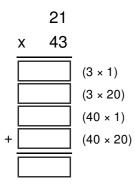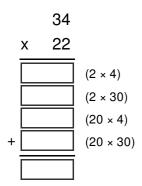**Practice Set: Multiply two two-digit numbers Part 1**

Question 1:

Multiply:

```
        13
    x   18
```

☐	(8 × 3)
☐	(8 × 10)
☐	(10 × 3)
+ ☐	(10 × 10)
☐	

Question 2:

Multiply:

```
        15
    x   19
```

☐	(9 × 5)
☐	(9 × 10)
☐	(10 × 5)
+ ☐	(10 × 10)
☐	

Question 3:

Multiply:

```
        21
    x   43
```

☐	(3 × 1)
☐	(3 × 20)
☐	(40 × 1)
+ ☐	(40 × 20)
☐	

Question 4:

Multiply:

```
        34
  x     22
```
```
  ┌──────────┐
  │          │   (2 × 4)
  ├──────────┤
  │          │   (2 × 30)
  ├──────────┤
  │          │   (20 × 4)
+ ├──────────┤
  │          │   (20 × 30)
  ├──────────┤
  │          │
  └──────────┘
```

Question 5:

Multiply:

```
        37
  x     16
```
```
  ┌──────────┐
  │          │   (6 × 7)
  ├──────────┤
  │          │   (6 × 30)
  ├──────────┤
  │          │   (10 × 7)
+ ├──────────┤
  │          │   (10 × 30)
  ├──────────┤
  │          │
  └──────────┘
```

Question 6:

Multiply:

```
        20
  x     14
```
```
  ┌──────────┐
  │          │   (4 × 0)
  ├──────────┤
  │          │   (4 × 20)
  ├──────────┤
  │          │   (10 × 0)
+ ├──────────┤
  │          │   (10 × 20)
  ├──────────┤
  │          │
  └──────────┘
```

Question 7:

Multiply:

```
      43
 x    42
```

☐ (2 × 3)
☐ (2 × 40)
☐ (40 × 3)
+ ☐ (40 × 40)
☐

Question 8:

Multiply:

```
      43
 x    47
```

☐ (7 × 3)
☐ (7 × 40)
☐ (40 × 3)
+ ☐ (40 × 40)
☐

Question 9:

Multiply:

```
      33
 x    20
```

☐ (0 × 3)
☐ (0 × 30)
☐ (20 × 3)
+ ☐ (20 × 30)
☐

Question 10:

Multiply:

```
        33
x      44
```

☐	(4 × 3)
☐	(4 × 30)
☐	(40 × 3)
+ ☐	(40 × 30)
☐	

Practice Set: Multiply two two-digit numbers Part 2

Question 1:

Multiply:

```
        29
x      65
```

☐	(5 × 9)
☐	(5 × 20)
☐	(60 × 9)
+ ☐	(60 × 20)
☐	

Question 2:

Multiply:

```
        72
x      45
```

☐	(5 × 2)
☐	(5 × 70)
☐	(40 × 2)
+ ☐	(40 × 70)
☐	

Question 3:

Multiply:

$$54$$
$$x \quad 36$$

☐	(6 × 4)
☐	(6 × 50)
☐	(30 × 4)
+ ☐	(30 × 50)
☐	

Question 4:

Multiply:

$$26$$
$$x \quad 65$$

☐	(5 × 6)
☐	(5 × 20)
☐	(60 × 6)
+ ☐	(60 × 20)
☐	

Question 5:

Multiply:

$$73$$
$$x \quad 75$$

☐	(5 × 3)
☐	(5 × 70)
☐	(70 × 3)
+ ☐	(70 × 70)
☐	

Question 6:

Multiply:

$$\begin{array}{r} 56 \\ \times \quad 38 \\ \hline \end{array}$$

	(8 × 6)
	(8 × 50)
	(30 × 6)
+	(30 × 50)

Question 7:

Multiply:

$$\begin{array}{r} 70 \\ \times \quad 60 \\ \hline \end{array}$$

	(0 × 0)
	(0 × 70)
	(60 × 0)
+	(60 × 70)

Question 8:

Multiply:

$$\begin{array}{r} 45 \\ \times \quad 60 \\ \hline \end{array}$$

	(0 × 5)
	(0 × 40)
	(60 × 5)
+	(60 × 40)

Question 9:

Multiply:

```
        42
   x    53
```

	(3 × 2)
	(3 × 40)
	(50 × 2)
+	(50 × 40)

Question 10:

Multiply:

```
        72
   x    66
```

	(6 × 2)
	(6 × 70)
	(60 × 2)
+	(60 × 70)

Practice Set: Multiply two two-digits numbers Part 3

Question 1:

Multiply:

```
        65
   x    86
```

	(6 × 5)
	(6 × 60)
	(80 × 5)
+	(80 × 60)

Question 2:

Multiply:

```
      28
  x   93
```

	(3 × 8)
	(3 × 20)
	(90 × 8)
+	(90 × 20)

Question 3:

Multiply:

```
      79
  x   80
```

	(0 × 9)
	(0 × 70)
	(80 × 9)
+	(80 × 70)

Question 4:

Multiply:

```
      97
  x   43
```

	(3 × 7)
	(3 × 90)
	(40 × 7)
+	(40 × 90)

Question 5:

Multiply:

```
        50
  x     94
```

( ) (4 × 0)
( ) (4 × 50)
( ) (90 × 0)
+ ( ) (90 × 50)
( )

Question 6:

Multiply:

```
        88
  x     65
```

( ) (5 × 8)
( ) (5 × 80)
( ) (60 × 8)
+ ( ) (60 × 80)
( )

Question 7:

Multiply:

```
        90
  x     82
```

( ) (2 × 0)
( ) (2 × 90)
( ) (80 × 0)
+ ( ) (80 × 90)
( )

Question 8:

Multiply:

$$\begin{array}{r} 79 \\ \times \quad 94 \end{array}$$

☐ (4 × 9)

☐ (4 × 70)

☐ (90 × 9)

+ ☐ (90 × 70)

☐

Question 9:

Multiply:

$$\begin{array}{r} 82 \\ \times \quad 50 \end{array}$$

☐ (0 × 2)

☐ (0 × 80)

☐ (50 × 2)

+ ☐ (50 × 80)

☐

Question 10:

Multiply:

$$\begin{array}{r} 86 \\ \times \quad 95 \end{array}$$

☐ (5 × 6)

☐ (5 × 80)

☐ (90 × 6)

+ ☐ (90 × 80)

☐

Practice Set: Multiply two-digit numbers with multiples of 10

Question 1:

Multiply:

$$\begin{array}{r} 50 \\ \times \quad 70 \end{array}$$

☐

Question 2:

Multiply:

```
          60
x         20
      ┌─────────┐
      │         │
      └─────────┘
```

Question 3:

Multiply:

```
          70
x         20
      ┌─────────┐
      │         │
      └─────────┘
```

Question 4:

Multiply:

```
          10
x         80
      ┌─────────┐
      │         │
      └─────────┘
```

Question 5:

Multiply:

```
          50
x         60
      ┌─────────┐
      │         │
      └─────────┘
```

Question 6:

Multiply:

```
          90
x         30
      ┌─────────┐
      │         │
      └─────────┘
```

Question 7:

Multiply:

```
          80
x         30
      ┌─────────┐
      │         │
      └─────────┘
```

Question 8:

Multiply:

```
        40
  x     70
  _____
  |      |
  |_____|
```

Question 9:

Multiply:

```
        10
  x     90
  _____
  |      |
  |_____|
```

Question 10:

Multiply:

```
        60
  x     40
  _____
  |      |
  |_____|
```

Lesson: Standard Algorithm with Two Digits

Practice Set: Multiply a two-digit number by a two-digit number with no carryover

Question 1:

Multiply:

$92 \times 22 =$ ☐

Question 2:

Multiply:

$17 \times 21 =$ ☐

Question 3:

Multiply:

```
        41
  x     15
  _____
  |      |
  |_____|
```

Question 4:

Multiply:

53 x 31 = ☐

Question 5:

Multiply:

61 × 11 = ☐

Question 6:

Multiply:

90 × 41 = ☐

Question 7:

Multiply:

$$\begin{array}{r} 82 \\ \times \quad 12 \\ \hline \end{array}$$

☐

Question 8:

Multiply:

81 x 21 = ☐

Question 9:

Multiply:

$$\begin{array}{r} 13 \\ \times \quad 31 \\ \hline \end{array}$$

☐

Question 10:

Multiply:

$$\begin{array}{r} 20 \\ \times \quad 32 \\ \hline \end{array}$$

☐

Practice Set: Multiply a two-digit number by a two-digit number with carryover

Question 1:

Multiply:

27 × 85 = ☐

Question 2:

Multiply:

```
        38
x       91
```
☐

Question 3:

Multiply:

```
        97
x       23
```
☐

Question 4:

Multiply:

64 × 24 = ☐

Question 5:

Multiply:

```
        94
x       79
```
☐

Question 6:

Multiply:

```
        63
x       91
```
☐

Question 7:

Multiply:

```
        38
x       76
    ┌──────┐
    │      │
    └──────┘
```

Question 8:

Multiply:

72 × 85 = ┌──────┐
         │   │
         └──────┘

Question 9:

Multiply:

```
        83
x       76
    ┌──────┐
    │      │
    └──────┘
```

Question 10:

Multiply:

```
        49
x       79
    ┌──────┐
    │      │
    └──────┘
```

Practice Set: Multiply a two-digit number by a two-digit number word problems

Question 1:

While on tour, a pop star gave 19 concerts a month. If he toured for 11 months, how many concerts did he do on this tour?

┌──────┐ concerts
│   │
└──────┘

Question 2:

A gym has 11 rows of elliptical machines with 13 machines in each row. The gym also has 14 rows of treadmills with 12 treadmills in each row. What is the maximum number of people that can use the elliptical machines and the treadmills at the same time?

┌──────┐ people
│   │
└──────┘

Question 3:

Angelia's Store received 18 boxes of chocolates. Each box contained 56 pieces of chocolate. How many pieces of chocolate did the store receive?

☐ pieces of chocolate

Question 4:

A printer can print 68 lines per minute. How many lines can it print in an hour?

☐ lines

(Hint: 60 minutes = 1 hour)

Question 5:

Adi pays $86 per month for ballet lessons and $22 per month for new ballet shoes. How much does she pay each year for ballet lessons and shoes?

$☐

(Hint: 1 year = 12 months)

Question 6:

A rose bush costs $94. How much do 12 rose bushes cost?

☐

Question 7:

There are 55 rows of seats on the ground floor of an auditorium and 23 rows of seats on the balcony of the auditorium. Each row has 16 seats. How many seats are in the auditorium?

☐ seats

Question 8:

A dozen organic eggs cost $15. A bakery ordered thirty-two dozen organic eggs. How much did the bakery pay for the eggs?

$☐

Question 9:

A gum factory puts 18 pieces of gum in each pack. How many pieces of gum are in 48 packs?

☐ pieces

Question 10:

Twenty-eight soccer teams are playing a tournament. If each team has 19 players, how many soccer players are in the tournament?

☐ players

Lesson: Partial Product Algorithm with One Digit

Practice Set: Multiply one-digit times two-digits with expanded notation

Question 1:
4|140|2|70|144

Question 2:
28|200|7|50|228

Question 3:
18|540|3|90|558

Question 4:
72|320|9|40|392

Question 5:
72|270|8|30|342

Question 6:
56|490|8|70|546

Question 7:
15|270|5|90|285

Question 8:
20|300|4|60|320

Question 9:
54|300|9|50|354

Question 10:
4|20

Practice Set: Multiply one-digit times two-digits with partial product algorithm

Question 1:
210|6|216

Question 2:
200|45|245

Question 3:
180|10|190

Question 4:
60|6

Question 5:
240|20|260

Question 6:
200|24|224

Question 7:
80|24|104

Question 8:
60|54|114

Question 9:
210|0|210

Question 10:

240|12|252

Practice Set: Multiply one-digit times three-digits with expanded form

Question 1:
21|270|1500|3|7|90|500|1791

Question 2:
6|80|1000|2|3|40|500|1086

Question 3:
32|720|3200|8|4|90|400|3952

Question 4:
35|400|3500|5|7|80|700|3935

Question 5:
8|360|3200|4|2|90|800|3568

Question 6:
6|180|1200|3|2|60|400|1386

Question 7:
4|60|200|2|30|100

Question 8:
0|560|4200|7|0|80|600|4760

Question 9:
18|120|1800|6|3|20|300|1938

Question 10:
35|150|2000|5|7|30|400|2185

Practice Set: Multiply one-digit times three-digits with partial product algorithm

Question 1:
1000|180|14|1194

Question 2:
1800|480|42|2322

Question 3:
1600|240|24|1864

Question 4:
2400|270|6|2676

Question 5:
800|360|12|1172

Question 6:
1800|90|6|1896

Question 7:
200|60|4

Question 8:
4800|640|0|5440

Question 9:
4500|150|20|4670

Question 10:
4000|100|30|4130

Practice Set: Multiply one-digit times four-digits with expanded notation

Question 1:
1000|300|10|2|3936|3000|900|30|6

Question 2:
6000|400|70|0|32350|30000|2000|350|0

Question 3:
3000|600|30|5|14540|12000|2400|120|20

Question 4:
7000|300|70|6|44256|42000|1800|420|36

Question 5:
2000|200|0|9|13254|12000|1200|0|54

Question 6:
5000|700|10|2|11424|10000|1400|20|4

Question 7:
4000|300|50|6|30492|28000|2100|350|42

Question 8:
5000|400|80|1|21924|20000|1600|320|4

Question 9:
7000|200|0|1|21603|21000|600|0|3

Question 10:
4000|800|80|7|14661|12000|2400|240|21

Practice Set: Multiply one-digit times four-digits with partial product algorithm

Question 1:
16,000|3,200|160|56|19,416

Question 2:
4,000|1200|120|24|5,344

Question 3:
18,000|2,100|30|27|20,157

Question 4:
8,000|1200|60|10|9,270

Question 5:
15,000|0|200|35|15,235

Question 6:
21,000|300|150|12|21,462

Question 7:
30,000|2,400|360|30|32,790

Question 8:
12,000|3,000|120|48|15,168

Question 9:
32,000|0|160|20|32,180

Question 10:
15,000|1,000|150|25|16,175

Lesson: Standard Algorithm with One Digit

Practice Set: Multiply one-digit number by a two-digit number with no carryover

Question 1:

88

Question 2:

28

Question 3:

129

Question 4:

48

Question 5:

63

Question 6:

39

Question 7:

21

Question 8:

93

Question 9:

66

Question 10:

33

Practice Set: Multiply one-digit number by a three-digit number with no carryover

Question 1:

966

Question 2:

693

Question 3:

284

Question 4:

393

Question 5:

866

Question 6:

428

Question 7:

826

Question 8:

844

Question 9:

909

Question 10:

933

Practice Set: Multiply one-digit number by a four-digit number with no carryover

Question 1:

2,868

Question 2:

12,246

Question 3:
4,264

Question 4:
4,008

Question 5:
6,428

Question 6:
28,804

Question 7:
10,628

Question 8:
4,084

Question 9:
12,960

Question 10:
4,808

Practice Set: Multiply one-digit number by a multi-digit number with no carryover word problems

Question 1:
77

Question 2:
4268

Question 3:
69

Question 4:
96

Question 5:
6300

Question 6:
606

Question 7:
4599

Question 8:
4800

Question 9:
168

Question 10:
120

Practice Set: Multiply a one-digit number by a two-digit number with carryover

Question 1:
108

Question 2:
513

Question 3:
231

Question 4:
204

Question 5:
387

Question 6:
310

Question 7:
430

Question 8:
152

Question 9:
70

Question 10:
174

Practice Set: Multiply a one-digit number by a three-digit number with carryover

Question 1:
5,184

Question 2:
724

Question 3:
1192

Question 4:
2,940

Question 5:
3,534

Question 6:
1,300

Question 7:
1365

Question 8:
2450

Question 9:
6,507

Question 10:
870

Practice Set: Multiply a one-digit number by a four-digit number with carryover

Question 1:
13,968

Question 2:
9,424

Question 3:
35,176

Question 4:

11,034

Question 5:

6,150

Question 6:

26,604

Question 7:

14,752

Question 8:

18,175

Question 9:

16,977

Question 10:

60,151

Practice Set: Multiply a one-digit number by a multi-digit number with carryover word problems

Question 1:

1944

Question 2:

100

Question 3:

6489

Question 4:

11366

Question 5:

834

Question 6:

54

Question 7:

575

Question 8:

606

Question 9:

240

Question 10:

47280

Lesson: Multiples of 10, 100, and 1000

Practice Set: Multiply by multiples of 10

Question 1:

480

Question 2:

350

Question 3:

270

Question 4:
320

Question 5:
120

Question 6:
100

Question 7:
150

Question 8:
630

Question 9:
160

Question 10:
200

Practice Set: Multiply by multiples of 100

Question 1:
3500

Question 2:
7200

Question 3:
800

Question 4:
1200

Question 5:
2100

Question 6:
4200

Question 7:
900

Question 8:
5400

Question 9:
1200

Question 10:
4000

Practice Set: Multiply by multiples of 1,000

Question 1:
32,000

Question 2:
27,000

Question 3:
30,000

Question 4:
28,000

Question 5:

18,000

Question 6:

32,000

Question 7:

21,000

Question 8:

10,000

Question 9:

8,000

Question 10:

54,000

Lesson: Partial Product Algorithm with Two Digits

Practice Set: Multiply two two-digit numbers Part 1

Question 1:

100|30|80|24|234

Question 2:

100|50|90|45|285

Question 3:

800|40|60|3|903

Question 4:

600|80|60|8|748

Question 5:

300|70|180|42|592

Question 6:

200|0|80|0|280

Question 7:

1,600|120|80|6|1,806

Question 8:

1,600|120|280|21|2,021

Question 9:

600|60|0|0|660

Question 10:

1,200|120|120|12|1,452

Practice Set: Multiply two two-digit numbers Part 2

Question 1:

1,200|540|100|45|1,885

Question 2:

2,800|80|350|10|3,240

Question 3:

1,500|120|300|24|1,944

Question 4:

1,200|360|100|30|1,690

Question 5:

4,900|210|350|15|5,475

Question 6:
1,500|180|400|48|2,128

Question 7:
4,200|0|0|0|4,200

Question 8:
2,400|300|0|0|2,700

Question 9:
2,000|100|120|6|2,226

Question 10:
4,200|120|420|12|4,752

Practice Set: Multiply two two-digits numbers Part 3

Question 1:
4,800|400|360|30|5,590

Question 2:
1,800|720|60|24|2,604

Question 3:
5,600|720|0|0|6,320

Question 4:
3,600|280|270|21|4,171

Question 5:
4,500|0|200|0|4,700

Question 6:
4,800|480|400|40|5,720

Question 7:
7,200|0|180|0|7,380

Question 8:
6,300|810|280|36|7,426

Question 9:
4,000|100|0|0|4,100

Question 10:
7,200|540|400|30|8,170

Practice Set: Multiply two-digit numbers with multiples of 10

Question 1:
3,500

Question 2:
1,200

Question 3:
1,400

Question 4:
800

Question 5:
3,000

Question 6:

2,700

Question 7:
2,400

Question 8:
2,800

Question 9:
900

Question 10:
2,400

Lesson: Standard Algorithm with Two Digits

Practice Set: Multiply a two-digit number by a two-digit number with no carryover

Question 1:
2024

Question 2:
357

Question 3:
615

Question 4:
1643

Question 5:
671

Question 6:
3690

Question 7:
984

Question 8:
1701

Question 9:
403

Question 10:
640

Practice Set: Multiply a two-digit number by a two-digit number with carryover

Question 1:
2295

Question 2:
3,458

Question 3:
2,231

Question 4:
1536

Question 5:
7,426

Question 6:
5,733

Question 7:
2,888

Question 8:
6120

Question 9:
6,308

Question 10:
3,871

Practice Set: Multiply a two-digit number by a two-digit number word problems

Question 1:
209

Question 2:
311

Question 3:
1008

Question 4:
4080

Question 5:
1296

Question 6:
1128

Question 7:
1248

Question 8:
480

Question 9:
864

Question 10:
532