

Name \_\_\_\_\_

## Multiply by 1-Digit Numbers

You can use place value to help you multiply by 1-digit numbers.

**Estimate. Then find the product.**  $378 \times 6$

**Estimate:**  $400 \times 6 = 2,400$

Step 1 Multiply the ones.	Step 2 Multiply the tens.	Step 3 Multiply the hundreds.																																																																
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So,  $378 \times 6 = 2,268$ .

**Complete to find the product.**

1.  $7 \times 472$

Estimate:  $7 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

Multiply the ones.

Multiply the tens.

Multiply the hundreds.

$$\begin{array}{r} 472 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ 472 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ 472 \\ \times 7 \\ \hline \end{array}$$

**Estimate. Then find the product.**

2. Estimate:

$$\begin{array}{r} \underline{\hspace{2cm}} \\ 863 \\ \times 8 \\ \hline \end{array}$$

3. Estimate:

$$\begin{array}{r} \underline{\hspace{2cm}} \\ 809 \\ \times 8 \\ \hline \end{array}$$

4. Estimate:

$$\begin{array}{r} \underline{\hspace{2cm}} \\ 932 \\ \times 7 \\ \hline \end{array}$$

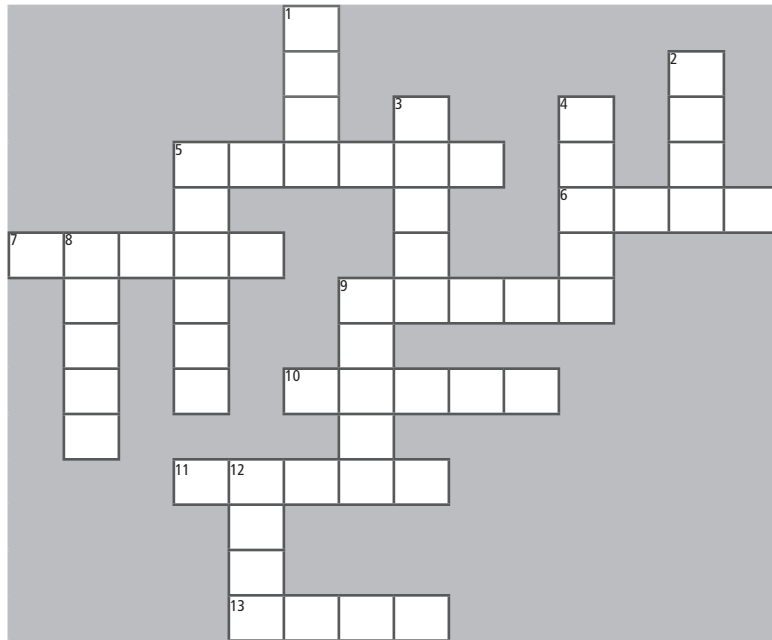
5. Estimate:

$$\begin{array}{r} \underline{\hspace{2cm}} \\ 2,767 \\ \times 7 \\ \hline \end{array}$$

Name \_\_\_\_\_

# Multiplication Number Puzzle

Use the clues to complete the puzzle.



## Down

1.  $856 \times 9$  \_\_\_\_\_
2.  $847 \times 6$  \_\_\_\_\_
3.  $5,082 \times 3$  \_\_\_\_\_
4.  $7,028 \times 6$  \_\_\_\_\_
5.  $24,162 \times 8$  \_\_\_\_\_
8.  $2,127 \times 6$  \_\_\_\_\_
9.  $3,289 \times 5$  \_\_\_\_\_
12.  $601 \times 6$  \_\_\_\_\_

## Across

5.  $12,762 \times 9$  \_\_\_\_\_
6.  $287 \times 6$  \_\_\_\_\_
7.  $1,326 \times 9$  \_\_\_\_\_
9.  $4,027 \times 4$  \_\_\_\_\_
10.  $4,027 \times 6$  \_\_\_\_\_
11.  $7,028 \times 9$  \_\_\_\_\_
13.  $1,722 \times 4$  \_\_\_\_\_

**14. Stretch Your Thinking** Write a different clue that has the same product as  $1,326 \times 9$ .

Name \_\_\_\_\_

## Multiply by Multi-Digit Numbers

You can use place value and regrouping to multiply.

**Find  $29 \times 63$ .**

**Step 1** Write the problem vertically.  
Multiply by the ones.

$$\begin{array}{r} 2 \\ 63 \\ \times 29 \\ \hline 567 \end{array} \quad \begin{array}{l} 63 \times 9 = (\underline{60} \times 9) + (\underline{3} \times 9) \\ = \underline{540} + \underline{27}, \text{ or } \underline{567} \end{array}$$

**Step 2** Multiply by the tens.

$$\begin{array}{r} 2 \\ 63 \\ \times 29 \\ \hline 567 \\ 1,260 \end{array} \quad \begin{array}{l} 63 \times 20 = (\underline{60} \times 20) + (\underline{3} \times 20) \\ = \underline{1,200} + \underline{60}, \text{ or } \underline{1,260} \end{array}$$

**Step 3** Add the partial products.

$$\begin{array}{r} 63 \\ \times 29 \\ \hline 567 \\ + 1,260 \\ \hline 1,827 \end{array}$$

So,  $29 \times 63 = 1,827$ .

**Complete to find the product.**

**1.** 
$$\begin{array}{r} 57 \\ \times 14 \\ \hline \end{array}$$

\_\_\_\_\_  $57 \times$  \_\_\_\_\_

+ \_\_\_\_\_  $57 \times$  \_\_\_\_\_

**2.** 
$$\begin{array}{r} 76 \\ \times 45 \\ \hline \end{array}$$

\_\_\_\_\_  $76 \times$  \_\_\_\_\_

+ \_\_\_\_\_  $76 \times$  \_\_\_\_\_

**3.** 
$$\begin{array}{r} 139 \\ \times 12 \\ \hline \end{array}$$

\_\_\_\_\_  $139 \times$  \_\_\_\_\_

+ \_\_\_\_\_  $139 \times$  \_\_\_\_\_

**4.** Find  $26 \times 122$ . Estimate first.

$$\begin{array}{r} 122 \\ \times 26 \\ \hline \end{array}$$

Estimate: \_\_\_\_\_

Name \_\_\_\_\_

# Unknown Digits Multiplication

Find the unknown digits.

1.

$$\begin{array}{r}
 \square 4 \\
 \times 8 \square \\
 \hline
 \square \square \square \\
 + 2720 \\
 \hline
 2,958
 \end{array}$$

2.

$$\begin{array}{r}
 65 \\
 \times 7 \square \\
 \hline
 5 \square 5 \\
 + 4550 \\
 \hline
 5, \square 35
 \end{array}$$

3.

$$\begin{array}{r}
 9 \square \\
 \times 24 \\
 \hline
 384 \\
 + 1 \square 20 \\
 \hline
 2, \square 04
 \end{array}$$

4.

$$\begin{array}{r}
 8 \square \\
 \times 68 \\
 \hline
 6 \square 6 \\
 + \square \square 20 \\
 \hline
 5,576
 \end{array}$$

5.

$$\begin{array}{r}
 53 \square \\
 \times \square 7 \\
 \hline
 37 \square 7 \\
 + 21 \square \square 0 \\
 \hline
 \square 4,9 \square \square
 \end{array}$$

6.

$$\begin{array}{r}
 246 \\
 \times \square 3 \\
 \hline
 7 \square \square \\
 + 196 \square 0 \\
 \hline
 \square \square, \square \square \square
 \end{array}$$

7. **Stretch Your Thinking** What two-digit number multiplied by itself has the product 2,025? **Explain** how you found your answer.

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