



Build Multiplication Fluency

Let's multiply multi-digit whole numbers, using the standard algorithm.

Warm-up

Notice and Wonder: Same Solution

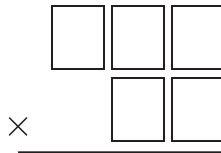
What do you notice? What do you wonder?

$$\begin{array}{r}
 1 \\
 1 5 \\
 4 1 7 \\
 \times 2 8 \\
 \hline
 3, 3 3 6 \\
 + 8, 3 4 0 \\
 \hline
 1 1, 6 7 6
 \end{array}$$

$$\begin{array}{r}
 3 \\
 5 \\
 2 8 \\
 \times 4 1 7 \\
 \hline
 1 \\
 1 9 6 \\
 2 8 0 \\
 + 1 1, 2 0 0 \\
 \hline
 1 1, 6 7 6
 \end{array}$$

Activity 1

Greatest Product



Directions:

- Each partner uses their own handout.
- Partner A: Choose a number card. Write the number in one of the blanks for Round 1.
- Partner B: Choose a number card. Write the number in one of the blanks for Round 1.
- Repeat until each partner has a three-digit-number-by-two-digit-number multiplication problem.
- Find the product.
- The partner with the greater product wins a point.
- The partner with more points after 5 rounds wins the game.

Activity 2

Targeted Products

1. Use the digits 3, 5, 6, 8, and 9 to make a product with a value that is close to 50,000.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$

2. Use the digits 3, 5, 6, 8, and 9 to make a product with a value that is close to 20,000.

$$\begin{array}{r} \square \square \square \\ \times \quad \square \square \\ \hline \end{array}$$