

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

## Warm-up

## Notice and Wonder: Same Solution

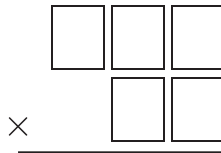
What do you notice? What do you wonder?

$$\begin{array}{r}
 \\
 \\
 \\
 \times \phantom{0000} \overset{\textcolor{teal}{1}}{5} \\
 \hline
 3,336 \\
 + 8,340 \\
 \hline
 11,676
 \end{array}$$

$$\begin{array}{r}
 \phantom{000}3 \\
 \phantom{000}5 \\
 \phantom{00}28 \\
 \times 417 \\
 \hline
 \phantom{00}196 \\
 \phantom{00}280 \\
 + 11200 \\
 \hline
 11676
 \end{array}$$

## 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.

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