Unit 4, Lesson 7

Build Multiplication Fluency

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

Warm-up

Notice and Wonder: Same Solution

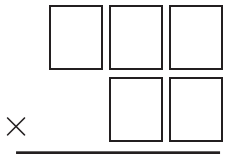
What do you notice? What do you wonder?

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

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

Activity 1

Greatest Product



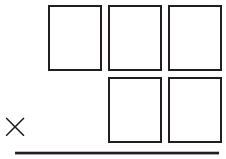
Directions:

- 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.



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