Unit 8, Lesson 1

Find the Greatest Product

Let's look for patterns when we multiply multi-digit numbers.

Warm-up

Notice and Wonder: Digits

What do you notice? What do you wonder?

$$\begin{array}{r} 8\,4\,1 \\ \times\quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 6\,4\,1 \\ \times\quad 8 \\ \hline \end{array}$$

Activity 1

Talk about It

1. Consider the statement below. Decide whether you agree, disagree, or are unsure.

	agree	disagree	unsure
Round 1: The greatest product using the digits 7, 5, and 2 is 75×2 because 75 is the greatest number you can make.			
Round 2: The greatest product using the digits 7, 5, and 2 is 75×2 because 75 is the greatest number you can make.			

Write about something new that you learned from your group or something you still wonder about:

2. Use the digits 6, 3, and 1 to make the greatest product. (Use each digit only once.) Explain your reasoning.

Activity 2

More Digits

1. Use the digits 7, 3, 2, and 5 to make the greatest product. Use each digit only once.

2. Explain your reasoning.