

# Lesson 1: Find the Largest 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?

$$\begin{array}{r} 841 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 641 \\ \times \quad 8 \\ \hline \end{array}$$

## 1.1: Talk About it

1. Consider the statement below. Decide whether you agree, disagree, or are unsure. Be prepared to explain your reasoning.

	agree	disagree	unsure
Given the digits 7, 5, and 2, the largest product you can make is $75 \times 2$ because 75 is the largest number you can make.			
After round 1: Given the digits 7, 5, and 2, the largest product you can make is $75 \times 2$ because 75 is the largest number you can make.			

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

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2. Use the digits 6, 3, and 1 to make the largest possible product. Be prepared to explain your reasoning.

## 1.2: More Digits

1. Use the digits 7, 3, 2, and 5 to make the greatest product.

2. Explain or show how you know you have made the greatest product.