

# **Lesson 10: Interpret Relationships**

• Let's find relationships between patterns.

## Warm-up: True or False: Multiply and Divide

Decide if each statement is true or false. Be prepared to explain your reasoning.

• 
$$276 \div 3 = \frac{1}{3} \times 276$$

• 
$$276 \div 3 = \frac{276}{6}$$

• 
$$(276 \div 3) \times 2 = \frac{2}{3} \times 276$$



### 10.1: Mix and Match: 3 Patterns

- 1. Complete the patterns for each set of rules.
- 2. What are some relationships between the patterns for each set of rules? Be prepared to explain your thinking.

Set A			
Rule 1: Start at 0. Keep adding 3.	ı		
Rule 2: Start at 0. Keep adding 6.			
Set B			
Rule 1: Start at 4. Keep adding 3.			
Rule 2: Start at 9. Keep adding 6.			
Set C			
Rule 1: Start at 0. Keep adding 5.			
Rule 2: Start at 0. Keep adding 3.			
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#### **10.2: Generate Patterns**

Partner A

1. Generate patterns for the two rules.										
Rule 1: Start with 0. Keep adding 4.										
Rule 2: Start with 0. Keep adding 6.										
2. Caranaga va va nattaga a Mhat galatian alaina da va va natian 2										

2. Compare your patterns. What relationships do you notice?

3. What number will be in pattern 2 when the number in the pattern 1 box is 40?

4. What number will be in pattern 1 when the number in the pattern 2 box is 120?



#### Partner B

1. Generate patterns for the two rules.										
Rule 1: Start with 0. Keep adding 2.										
Rule 2: Start with 0. Keep adding 3.										

2. Compare your patterns. What relationships do you notice?

3. What number will be in pattern 2 when the number in the pattern 1 box is 30?

4. What number will be in pattern 1 when the number in the pattern 2 box is 60?