## Unit 7 Lesson 10: Interpret Relationships

### WU True or False: Multiply and Divide (Warm up)

#### Student Task Statement

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

* $276÷3=\frac{1}{3}×276$
* $276÷3=\frac{276}{6}$
* $\left(276÷3\right)×2=\frac{2}{3}×276$

### 1 Mix and Match: 3 Patterns

#### Student Task Statement

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.



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.



### 2 Generate Patterns

#### Student Task Statement

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.
* 
1. Compare your patterns. What relationships do you notice?
2. What number will be in pattern 2 when the number in the pattern 1 box is 40?
3. 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.
* 
1. Compare your patterns. What relationships do you notice?
2. What number will be in pattern 2 when the number in the pattern 1 box is 30?
3. What number will be in pattern 1 when the number in the pattern 2 box is 60?



© CC BY 2021 Illustrative Mathematics®