

Name _____

Date _____

Number Sequences Guided Lesson Explanation

This problem gives us the freedom to start at any value that we choose. The easiest value to start with, if you are adding, is 0.

From sequence 1, we will start at 0 and add 13 to each step forward. There are total of 5 steps as the problem outlined:

_____/_____/_____/_____/_____

Sequence 1:

$$\text{Step 1} = 0$$

$$\text{Step 2} = 0 + 13 = 13$$

0, 13

$$\text{Step 3} = 13 + 13 = 26$$

0, 13, 26

$$\text{Step 4} = 26 + 13 = 39$$

0, 13, 26, 39

$$\text{Step 5} = 39 + 13 = 52$$

0, 13, 26, 39, 52

From sequence 2, we will start at 0 and add 26 to each step forward. There are total of 5 steps as the problem outlined:

_____/_____/_____/_____/_____

Sequence 1:

$$\text{Step 1} = 0$$

$$\text{Step 2} = 0 + 26 = 26$$

0, 26

$$\text{Step 3} = 26 + 26 = 52$$



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0, 26, 52

$$\text{Step 4} = 52 + 26 = 78$$

0, 26, 52, 78

$$\text{Step 5} = 78 + 26 = 104$$

0, 26, 52, 78, 104

Compare:

Sequence 1: 0, 13, 26, 39, 52

Sequence 2: 0, 26, 52, 78, 104

The values of sequence 2 are twice the values of sequence 1.

13 is a factor of 26 so both sequences are related to each other i.e. 0, 26, 52 etc. are common in both numerical sequences.

