Module 11
Lesson 2

I will be able to write a linear equation from a function table!

Arithmetic Sequence

Found by adding or subtracting the same number to the previous term.

1. 7, 14, 21, 28, ... 35, 42

+7 +7 +7 +7 +7

14-7=7

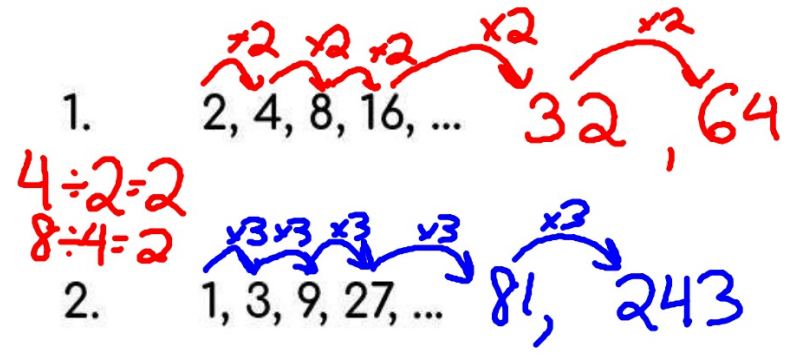
21-14=7

2. 4.5, 4, 3.5, 3, ... 2.5, 2

-.5 -.5 -.5 -.5 -.5

Geometric Sequence

Found by multiplying the previous term by the same number.



Write an equation based on a table:

Goal - How to get from x to y

When there is no real-world situation, we USUALLY say x is the independent variable and y is the dependent variable!

1
2
3 If same add or subtract

Independent	x	2	4	6	8	10
Dependent	y	5	7	9	11	13

+2 +2 +2 +2

3 +3 +3

+2 +2 +2 +2

$x + 3 = y$

Practice:

x	12	11	10
y	10	9	8

-1 -1 -2 -2 -1 -1

$x - 2 = y$

x	10	12	14
y	25	30	35

x	5	4	3
y	10	9	8

-1 -1 +5 +5 -1 -1

$x + 5 = y$

x	0	1	12
y	0	2	24

Practice:

When Ryan is 10, his brother Kyle is 15. When Ryan is 16, Kyle will be 21. When Ryan is 21, Kyle will be 26. Create a function table, AND write and solve an equation to find Kyle's age when Ryan is 52.

Ryan			
Kyle			

Practice:

Meredith is playing a video game. She earns the same number of points for each alien she captures. She earned 750 points for capturing 5 aliens and 1350 points for capturing 9 aliens. Create a function table, ANd write and solve an equation to find how many points Meredith will earn if she captures 27 aliens.

Aliens			
Points			

Practice:

Jamie bought 2 puzzles for $5.00 and 3 puzzles for $7.50. Create a function table AND write and solve an equation to find the cost of 15 puzzles.

Number of Puzzles			
Cost			