

PRACTICE: LESSON 4.1 – CALCULATING & INTERPRETING SLOPE Name: _____

Learning Goal: I can calculate the **slope** of a relationship when represented by a graph, table, equation, or ordered pairs.

Meta de Aprendizaje: Puedo calcular la **pendiente** de una relación cuando representada por un gráfico, tabla, ecuación o pares ordenados.

Language Goal: I can describe the **slope** of a relationship as a unit rate or rate of change, like “the y-value changes by _____ when the x-value changes by _____.”

Lenguaje Objetivo: Puedo describir la **pendiente** de una relación como una tasa unitaria o tasa de cambio, al igual que “los cambios de valor de y por _____ cuando cambia el valor de x por _____.”

DIRECTIONS: FIND THE SLOPE AND DESCRIBE THE SLOPE USING THE TABLE.

x	y
-2	3
-1	5
0	7
1	9
2	11

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

The y-value changes by _____
when the x-value changes by _____.

x	y
-3	5
-2	2
-1	-1
0	-4
1	-7

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

The y-value changes by _____
when the x-value changes by _____.

x	y
1	-17
2	-13
3	-9
4	-5
5	-1

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

The y-value changes by _____
when the x-value changes by _____.

x	y
-6	-4
-5	-9
-4	-14
-3	-19
-2	-24

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

The y-value changes by _____
when the x-value changes by _____.

x	y
0	3
1	5.5
2	8
3	10.5
4	13

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

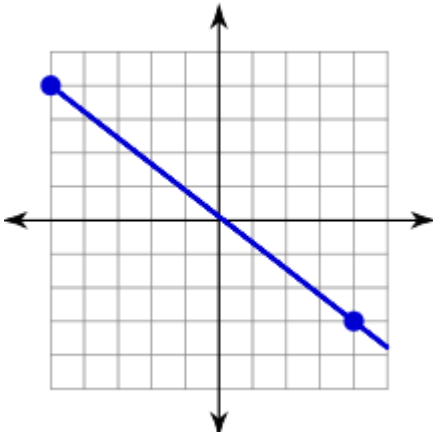
The y-value changes by _____
when the x-value changes by _____.

x	y
-2	$\frac{2}{5}$
-1	$\frac{4}{5}$
0	$\frac{6}{5}$
1	$\frac{8}{5}$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\quad}{\quad}$$

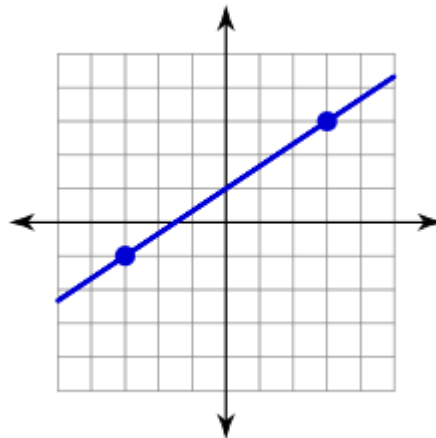
The y-value changes by _____
when the x-value changes by _____.

DIRECTIONS: FIND 2 POINTS USING “PERFECT CORNERS” TO FIND THE SLOPE.



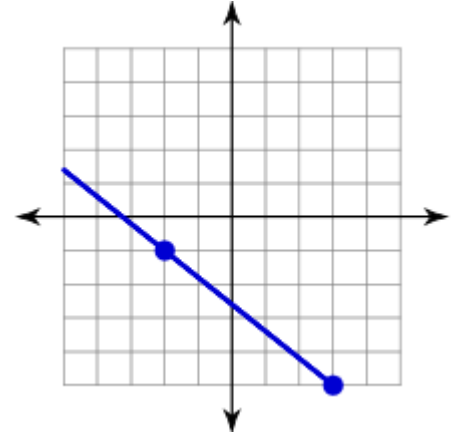
$$m = \frac{\text{fall}}{\text{run}} = \frac{4}{4} = 1$$

The y-value changes by _____
when the x-value changes by _____.



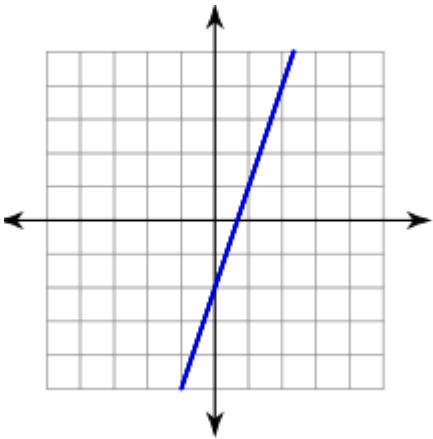
$$m = \frac{\text{rise}}{\text{run}} = \frac{4}{2} = 2$$

The y-value changes by _____
when the x-value changes by _____.



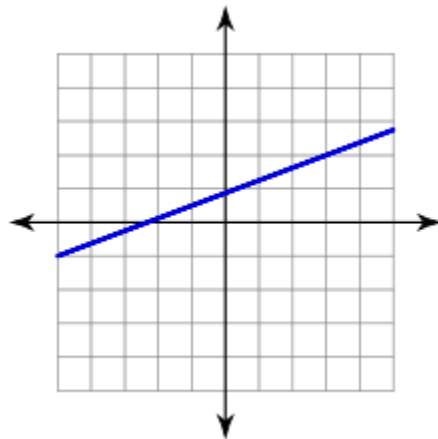
$$m = \frac{\text{fall}}{\text{run}} = \frac{4}{2} = 2$$

The y-value changes by _____
when the x-value changes by _____.



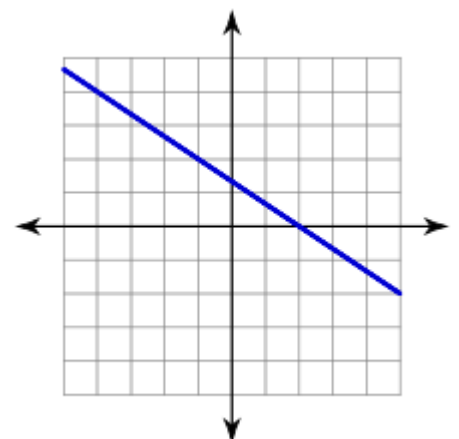
$$m = \frac{\text{rise}}{\text{run}} = \frac{6}{2} = 3$$

The y-value changes by _____
when the x-value changes by _____.



$$m = \frac{\text{rise}}{\text{run}} = \frac{2}{4} = \frac{1}{2}$$

The y-value changes by _____
when the x-value changes by _____.



$$m = \frac{\text{fall}}{\text{run}} = \frac{4}{4} = 1$$

The y-value changes by _____
when the x-value changes by _____.