

Name: _____
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Date: _____
Linear Equations

(Level C)Independent Practice Day 7: Writing an equation of a line using a table.

$$\text{Slope} = m = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

1. Determine the slope of a line using the table:

x	0	1	2	3	4
y	2	5	8	11	14

$$m = \underline{\hspace{2cm}}$$

Determine the equation for the tables shown:

1.

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

$$m = \underline{\hspace{2cm}}$$

2.

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

$$m = \underline{\hspace{2cm}}$$

3.

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

$$m = \underline{\hspace{2cm}}$$

4.

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

$$m = \underline{\hspace{2cm}}$$

$$a = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$$

5.

Write a linear equation for the tables shown. $y = mx + b$

x	y
-2	10
0	4
3	-5
6	-14
8	-20

- Find the m slope
- Find the b y-intercept
- Plug the m and b into your slope intercept form.... $y = mx + b$
Plug in the m and b $y = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$

6.

Write a linear equation for the tables shown. $y = mx + b$

x	y
-2	3
-1	6
0	9
1	12
2	15

1. Find the m slope

2. Find the b y-intercept

3. Plug the m and b into your slope intercept form.... $y = mx + b$

Plug in the m and b $y = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$

7.

Write a linear equation for the tables shown. $y = mx + b$

x	y
-14	3
-12	6
-10	9
-8	12
-6	15

1. Find the m slope

2. Find the b y-intercept

3. Plug the m and b into your slope intercept form.... $y = mx + b$

Plug in the m and b $y = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$

8.

Write a linear equation for the tables shown. $y = mx + b$

1. Find the m slope

2. Find the b y-intercept

3. Plug the m and b into your slope intercept form.... $y = mx + b$

Plug in the m and b $y = \underline{\hspace{2cm}}x + \underline{\hspace{2cm}}$

x	y
-6	12
-5	14
-4	16
-3	18
-2	20