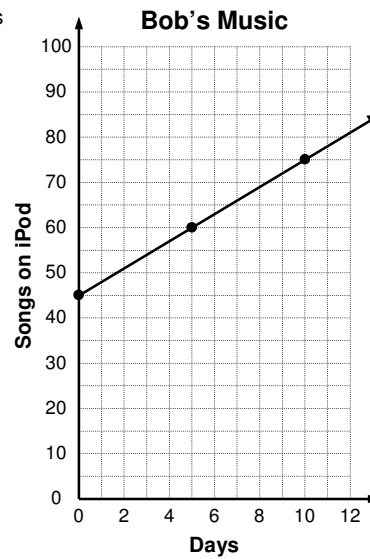


MAP Test Homework

Assignment:

1. Bob has several songs on his iPod, but plans to buy more songs each day.
 - a. Find the y -intercept of the line. What does it represent in the context of the story?
 - b. Find the slope of the line. What does it represent in the context of the story?
 - c. Write an equation for the number of songs n after any number of days d .
 - d. Use the graph to estimate the number of songs he will have in 4 days. Show your work on the graph.
 - e. Use the graph to estimate the number of days until he will have 70 songs. Show your work on the graph.



2. Use the table to answer the following.
 - a. Write an equation that matches the table.
 - b. Write a story that matches the table. Title the table.

Time (hrs)	Snow Height (cm)
3	13
6	7
7	5

- c. What does the slope represent in the context of your story? The y -intercept?

3. Use the equation to answer the following: $y = 50 - 1.2x$
 - a. Complete the table that matches the equation.
 - b. Write a story problem to match the equation. Title the table.

Number of Hours	Pounds of Strawberries
0	
1	
2	
3	
4	
5	

- c. What does the slope represent in the context of your story? The y -intercept?

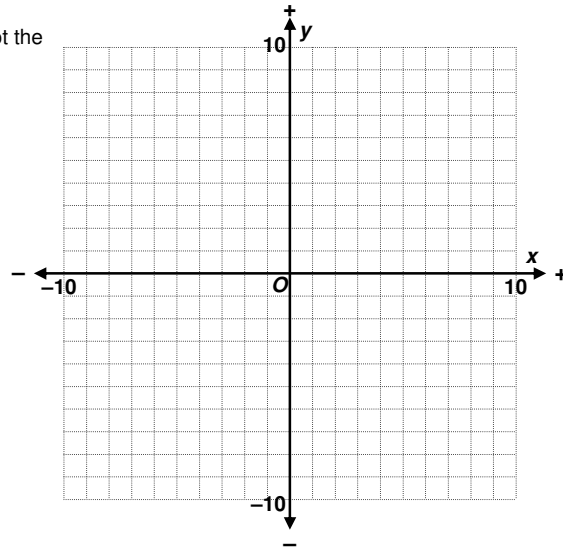
4. Graph each equation. Be sure to clearly plot the points to show the slope's pattern!

a. $y = -\frac{2}{9}x + 3$

b. $y = \frac{5}{3}x - 7$

c. $y = 7x + 6$

d. $y = -4$



5. For each table, write the correct equation from the choices on the right. Show your work.

a.

x	y
0	-4
2	-3
4	-2

b.

x	y
0	2
8	0
16	-2

c.

x	y
8	0
12	1
16	2

d.

x	y
-20	14
-16	12
2	3

Equations:

$$y = \frac{1}{2}x + 4$$

$$y = \frac{1}{2}x - 4$$

$$y = -\frac{1}{2}x + 4$$

$$y = -\frac{1}{2}x - 4$$

$$y = \frac{1}{4}x + 2$$

$$y = \frac{1}{4}x - 2$$

$$y = -\frac{1}{4}x + 2$$

$$y = -\frac{1}{4}x - 2$$

6. Does the table represent a linear relationship? Clearly explain how you know.

a.

x	y
0	1
3	3
12	9

b.

x	y
0	8
8	2
12	-1

c.

x	y
6	3
8	8
16	13

d.

x	y
3	-1
7	-4
31	-22