EOC BOOT CAMP

Name: _____

EOC _____ Days!

1) What is the equation for this chart? Remember yesterday!

X	Y
4	6
6	12
8	18
10	24

2) What is the y-intercept of the line given by

$5x - 8y = 48$?

a.) 6
b.) 48/5
c.) 48
d.) -6
e.) – 48/5

3) Plug in values for x and solve for y!

$Y = \frac{1}{2}x + 3$

X	Y
1	
2	
3	
4	

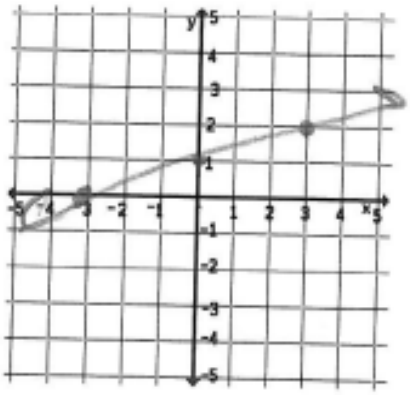
4) What is the equation for this chart? Remember yesterday!

X	Y
1	6
2	12
3	18
4	24

5) What is the slope of a line that goes through points:

(-5,3) and (2, 4)?

6) What is the slope of this line?



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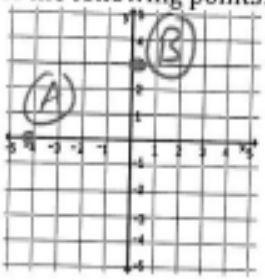
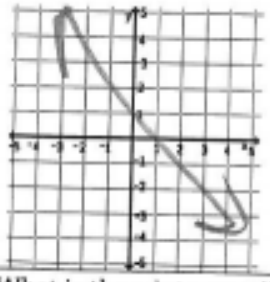
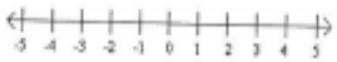
What is ½ of 6?	Which is greater? Use <, >, or = -6 __ -10	Circle the slope! Underline the y intercept! Y = 8x - 5	Combine like terms: 4n - 2n =
What two numbers have a sum of 7 and a product of 12?	Solve: 5x - 2= 13	Use the distributive property: 2(x - 4) = _____	What are the coordinates of the following points?  A= B=
Positive or negative slope? 	What is the slope of (3,2) and (-4,2)	Graph on the number line: $x < -3$ 	Solve for y 3y = 12x + 6
What is the y intercept!! X | Y 6 | 4 4 | 6 2 | 8 0 | 10	Solve -10 + 4 = -3 - 8 =	Place on the number line: - 3 ½ 	Q. Why is 2+2=5 like your left foot?

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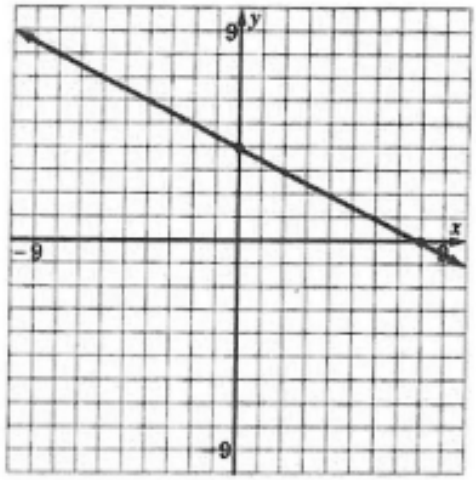
What do you see?



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

EOC BOOT CAMP

E O C _____ Days!

NUMBER SENSE

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

EOC BOOT CAMP

Days!

FIND THE SLOPE OF EACH PAIR OF COORDINATES. REMEMBER CHANGE IN Y OVER CHANGE IN X!!!

1)

X	Y
1	-3
2	-8

X	Y
0	9
1	10

X	Y
-4	3
2	1

2)

X	Y
3	-8
1	0

X	Y
-4	1
-2	5

X	Y
-3	9
3	0

3)

X	Y
0	0
5	10

X	Y
-3	8
1	12

X	Y
5	100
10	200

4)

X	Y
-6	2
2	-2

X	Y
-3	2
2	-3

X	Y
2	4
0	-4

5)

X	Y
6	-3
-2	-1

X	Y
6	3
11	18

X	Y
-7	2
-4	3

6)

X	Y
-5	-3
-4	-3

X	Y
2	-5
0	3

X	Y
1	3
2	4

EOC BOOT CAMP

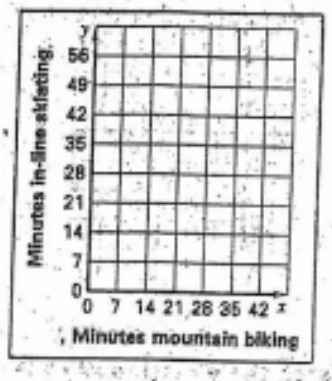
E O C _____ Days!

Objective: SWBAT find a line's X and Y intercepts

When would I use this in real life?!!?!?!?

WHAT DO INTERCEPTS MEAN????

1. **Burning Calories** A man burns 10 calories per minute mountain biking and 7.5 calories per minute in-line skating. His goal is to burn approximately 420 calories daily. This situation can be represented by the equation $10x + 7.5y = 420$ where x is the number of minutes spent mountain biking and y is the number of minutes spent in-line skating.



a. Find the intercepts of the graph of the equation. Graph the equation.

b. What do the intercepts mean in this situation?

c. What are three possible numbers of minutes of biking and skating the man could do to reach his goal

2. **MOVIES** Mrs. Hodges spent $80 on movie tickets and drinks for her son and his friends. The total cost of x movie tickets and y drinks is represented by the function $8x + 4y = 80$.

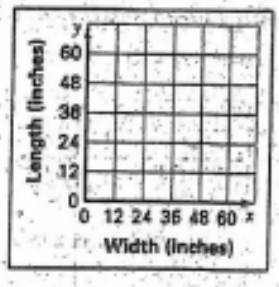
Item	Cost
ticket	$8
drink	$4

1. Describe a method you could use to graph the function. Then graph the function.
2. What do the points (0, 20) and (10, 0) represent?

3. **Rabbit Hutch** The cage that you keep your rabbit in has a perimeter of 118 inches. Let x be the cage's width (in inches) and let y be its length (in inches).

a. Write an equation for the perimeter.

b. Find the intercepts of the graph of the equation you wrote. Then graph the equation.



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E C _____ Days!

Examples 1 and 2 State the x- and y-intercepts of each function.

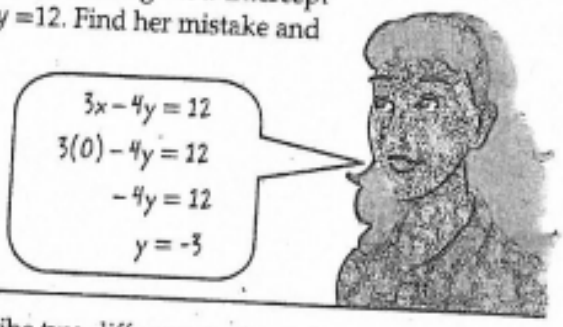
1. $5x + 4y = 20$
2. $6x - 2y = 18$
3. $-3x + 6y = 12$
4. $-4x - 6y = 24$
5. $\frac{3}{2}x + 10y = 15$
6. $\frac{3}{4}x - \frac{3}{5}y = 12$

Examples 3 and 4

7. **DISPLAYS** A store sells juice boxes in packages of 6 boxes and 8 boxes. They have 288 total juice boxes. This is represented by the function $6x + 8y = 288$. Graph the function. Then interpret the x- and y-intercepts.

HOT Problems

24. **FIND THE ERROR** Carmen is finding the x-intercept of the function $3x - 4y = 12$. Find her mistake and correct it.



25. **WRITE MATH** Describe two different methods for graphing a function. Which method do you prefer to use? Why?

Match the equation with its intercepts.

22. $7y = 28 - 4x$

23. $7x = 4y + 28$

24. $4y = 7x + 28$

A. x-intercept: 4
y-intercept: -7

B. x-intercept: -4
y-intercept: 7

C. x-intercept: 7
y-intercept: 4

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E C _____ Days!

FIND THE SLOPE OF EACH PAIR OF COORDINATES. REMEMBER CHANGE IN Y OVER CHANGE IN X!!!

X	Y
1	-3
2	-8

X	Y
0	9
1	10

X	Y
-4	3
2	1

X	Y
3	-8
1	0

X	Y
-4	1
-2	5

X	Y
-3	9
3	0

X	Y
0	0
5	10

X	Y
-3	8
1	12

X	Y
5	100
10	200

X	Y
-6	2
2	-2

X	Y
-3	2
2	-3

X	Y
2	4
0	-4

X	Y
6	-3
-2	-1

X	Y
6	3
11	18

X	Y
-7	2
-4	3

X	Y
-5	-3
-4	-3

X	Y
2	-5
0	3

X	Y
1	3
2	4

EOC BOOT CAMP

EOC _____ Days!

Name: _____

Exit Ticket

1. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
2. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
3. Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ

Criteria for Success:
- ü Try every problem
- ü Show your work (MARK UP THE TABLES!!)
- ü Find the correct answer

(1)

The function $12x - 10y = 600$ represents the total amount Student Council spent on supplies for a school fundraiser. What is the x-intercept of the function?

A. -60
C. 50
B. -50
D. 60

(2)

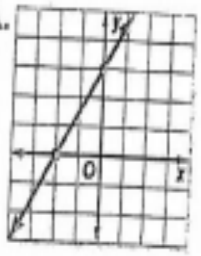
The y-intercept of which of the following functions is 5?

F. $4x - 5y = 30$
G. $4x - 6y = 30$
H. $4x + 5y = 30$
I. $4x + 6y = 30$

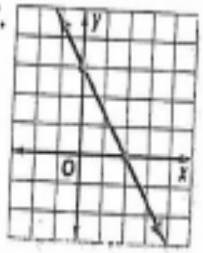
(3)

Which of the following is the graph of the function $2x + 3y = 6$?

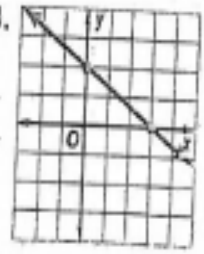
A.



C.



B.



D.