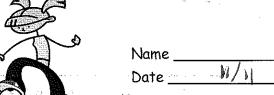
AX+By=C Linear Equations 11

Standard Form Graphing

PreAp Explore



Name Period

1. Mount Washington in Pittsburgh, Pennsylvania gives you a spectacular view of the city. A trolley car takes tourists along the track up and down the mountain. The total distance of the trip is about 1600 feet. The distance can be graphed as a function of time.

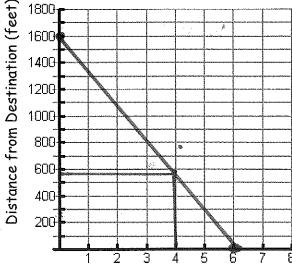
a. The y-intercept is (0,1600) What does this mean for this situation?

The tralley starts 1600 H

b. The x-intercept is (6,0) What does this mean for this situation?

for this situation?

The destroyed for the situation of t



Time (minutes)

d. Estimate the distance the car will be away from its destination after 4 minutes. (520-580)

2. Write ordered pairs for the y-intercepts of all three lines.

(0'3) (0'-1) (0'-1)

What do you notice about all the ordered pairs on the y-axis?

The X-value has to be zero

3. Write ordered pairs for the x-intercepts of all three lines.

A(S,0) B(2,0) C(8,8)

The first of the second of the

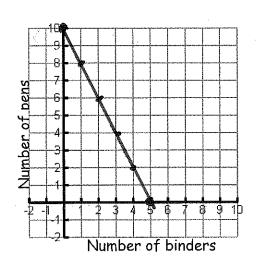
What do you notice about all the ordered pairs on the x-axis?

The y-value has to be zero

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4. Graphing from Standard Form using X and Y Intercepts Equation 2x + 3y = 12	
Find the x - intercept for the equation. Answer Find the y - intercept for the equation. Answer Answer	1437 : 15
Graph the equation What is the m?	
What is the b?	7
	E.

- 5. The school store sells binders for \$4.00 each and pens for \$2.00 each. The equation in standard form is 4x + 2y = 20. It describes the number of binders x and pens y that you can buy for \$20.
 - a. Complete the table to show the combinations of binders and pens that can be bought for \$20.
 - b. Explain why it does not make sense to find the number of pens you can buy with 6 binders. Not possible as you will not

Binders	Pens
(x)	(y)
O *	10
1 -	8
. 2	. 6
3	L
4	
∘.5 ∘ ૂ	
6	-2



- c. Graph this relationship.
- d. What is the ordered pair for the y-intercept? What does this point mean for the situation?
- e. What is the ordered pair for the x-intercept? What does this point mean for the situation? (5,0) They can buy 5 binders but no pens