Algebra 1

6th

Bellwork

Thursday, January 21, 2016

1. Change each equation into Slope-Intercept Form.

a)
$$y-9 = -\frac{5}{6}(x-24)$$

b)
$$24x - 18y = 90$$

- 2. Miguel bought some basketballs and soccer balls for the gym class. Basketballs cost \$24 each and soccer balls cost \$30 each. He spent a total of \$360.
- a) Model this situation with an equation. Define your variables.

EQ:

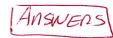
Variables:

b) If he bought zero soccer balls find the number of basketballs purchased.

3. Write the equation of the line that passes through the points (1,-2)&(4,-2). Give your answer in any form you wish.

4. A line passes through the points (5,9)&(5,-1). Why can't you write the equation of this line in Slope-Intercept Form?

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1. Change each equation into Slope-Intercept Form.

a)
$$y-9=-\frac{5}{6}(x-24)$$

$$y-9=-\frac{5}{2}x+20$$

$$y = \frac{5}{6}x + 29$$

b)
$$24x - 18y = 90$$

 $-24 \times -24 \times$

$$\frac{-18y = 90 - 24x}{-18}$$

$$\int \mathcal{Y} = -5 + \frac{4}{3} \chi$$

- 2. Miguel bought some basketballs and soccer balls for the gym class. Basketballs cost \$24 each and soccer balls cost \$30 each. He spent a total of \$360.
- a) Model this situation with an equation. Define your variables.

EQ:
$$24B + 30S = 360$$

b) If he bought zero soccer balls find the number of basketballs purchased.

$$S=0$$

$$24B + 30(0) = 360$$

$$\frac{24B - 360}{24}$$

3. Write the equation of the line that passes through the points (1,-2)&(4,-2). Give your answer in any form you wish.

$$M = \frac{-2 - 2}{4 - 1} = \frac{9}{3} = 0$$

$$y + 2 = 0(x - 1)$$

 $y + 2 = 0$
 $y + 2 = 0$

4. A line passes through the points (5,9)&(5,-1). Why can't you write the equation of this line in Slope-Intercept Form?