

Warm- Up: Check review answers!

Answers:

1.  $y = \frac{2}{3}x + 1\frac{2}{3}$

2.  $y = -2x - 3$

3.  $y = -2x - 11; 2x + y = -11$

4.  $y = -\frac{5}{4}x + \frac{77}{4}; 5x + 4y = 77$

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

6.  $y = \frac{-5}{2}x + 17; 5x + 2y = 34$

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

8.  $y = \frac{6}{7}x + 2; 6x - 7y = -14$

9.  $y = -\frac{3}{2}x - \frac{47}{2}; 3x + 2y = -47$

10.  $y = 4x + 3; 4x - y = -3$

11.  $y = \frac{1}{3}x + 2; x - 3y = -6$

12.  $y = -2x + 17; 2x + y = 17$

13.  $x = 3$

14.  $y = 5$

15.  $y = -2x; 2x + y = 0$

16.  $y = -\frac{7}{3}x + 9; 7x + 3y = 27$

18. a)  $y = 175x + 1150$

b) \$175

c) \$1,150

19. a)  $y = -3x + 48$

b) 16 games

17.

- a. Sketch a scatter plot for this data.
- b. Describe the correlation: positive
- c. Draw a line of best fit.
- d. Write an equation of the line of best fit.  $(2, 3) (8, 12)$

Number of llamas(x)	Number of Hay Bales(y)
1	1
2	3
3	5
4	6
5	7
6	10
7	10
8	12
9	15
10	15

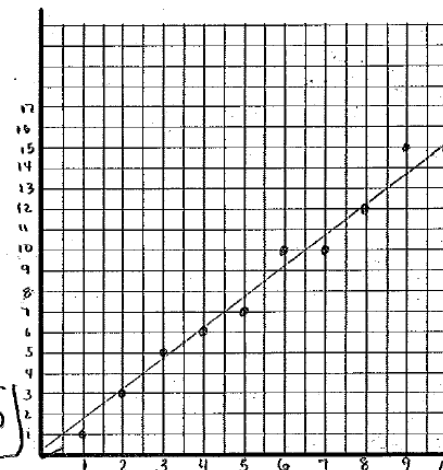
$$m = \frac{12-3}{8-2} = \frac{9}{6} = \frac{3}{2}$$

$$3 = \frac{3}{2}(2) + b$$

$$3 = 3 + b$$

$$b = 0$$

$$y = \frac{3}{2}x + 0$$



- e. How many bales of hay per week do you expect 25 llamas to eat? 37.5 bales  $3(25) + 0$