

1.  $y = -\frac{1}{2}x + 1$
2.  $y - 7 = -(x - 4)$
3.  $f(x) = x - 5$
4.  $f(x) = -4$
5.  $f(x) = -\frac{5}{3}x + 18$
6. Lines  $a$  and  $b$  are parallel; None of the lines are perpendicular; Lines  $a$  and  $b$  have the same slope and none of them have negative reciprocal slopes.
7. None of the lines are parallel; Lines  $b$  and  $c$  are perpendicular; None of the lines have the same slope and the slope of line  $b$  is the negative reciprocal of the slope of line  $c$ .
8.  $y = -4x + 9$
9.  $y = \frac{1}{2}x - 4$
10.  $4h$
11. *Sample answer:*  $y = \frac{1}{5}x + 2$ ; The slope of  $\frac{1}{5}$  means the roasting time increases by about  $\frac{1}{5}$  hour for each pound the weight of the turkey increases. The  $y$ -intercept of 2 has no meaning in this context because the weight of the turkey cannot be 0 pounds.
15.  $a_n = -n + 12$ ;  $-18$
16.  $a_n = 6n$ ;  $180$
17.  $a_n = 3n - 12$ ;  $78$

The scatter plot represents the number of minutes given and the number of words typed.

Minutes	Words	Minutes	Words
2	80	4	150
1	30	2.5	100
4	175	3	100
2	125	3.5	225
3	140	1.5	50

- a. Create a scatter plot and label the line of fit.

- b. Write an equation for the line of fit.

$$(1.5, 50) \quad (2.5, 100)$$

$$\frac{50}{1} \quad m = 50$$

$$y - 50 = 50(x - 1.5)$$

$$y - 50 = 50x - 75$$

$$y = 50x - 25$$

- c. How many words could be typed in 8 minutes?

$$y = 50(8) - 25$$

$$y = 375 \text{ words}$$

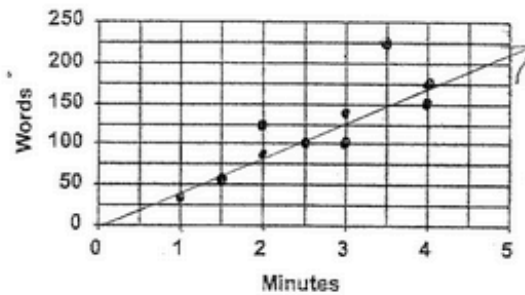
- d. Estimate the number of minutes it would take to type a 900-word paper.

$$900 = 50x - 25$$

$$925 = 50x$$

$$\frac{925}{50} = \frac{50x}{50} \quad x = 18\frac{1}{2} \text{ hours}$$

Typing Class



Sample Answer