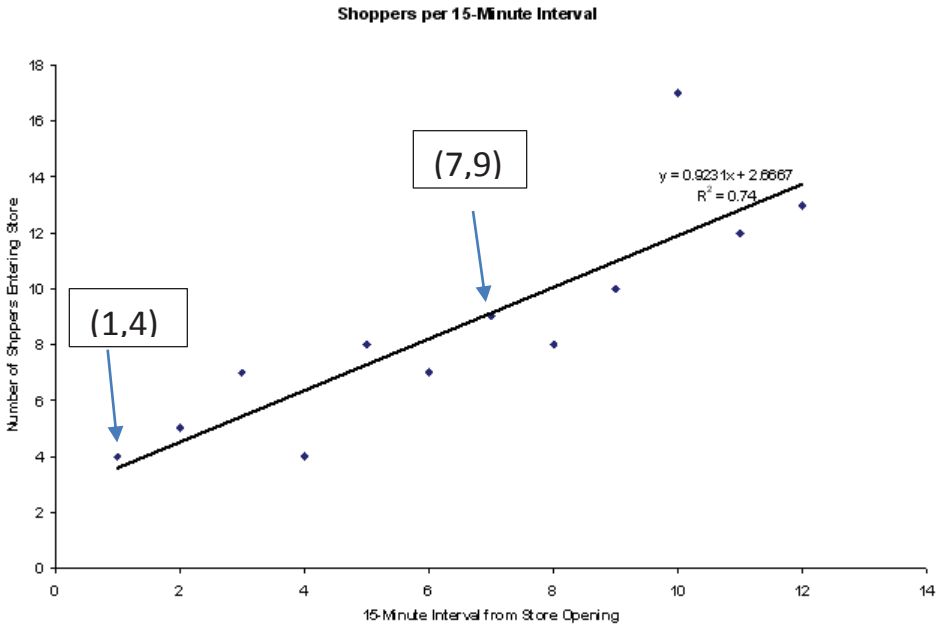
Determine the equation for the line of best fit

$$y = mx + b$$

*$m = \frac{y_2 - y_1}{x_2 - x_1}$; Use two points on the line to determine the slope OR the highest and lowest point.

* b = y-intercept (where the graph crosses the y-axis)

Example:



$x_1\ y_1\ \ x_2\ y_2$

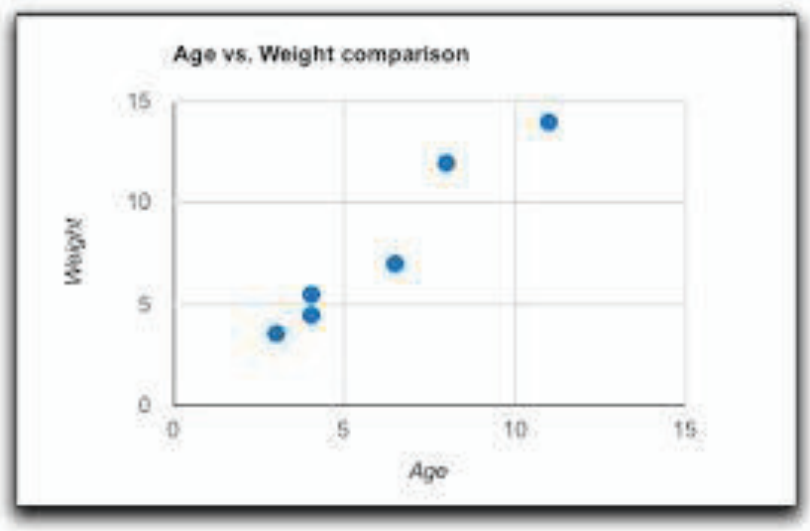
(1,4) (7,9) ; $m = \frac{y_2 - y_1}{x_2 - x_1}$; $m = \frac{9-4}{7-1} = \frac{5}{6}$

$b = 3$ (where the graph crosses the y-axis)

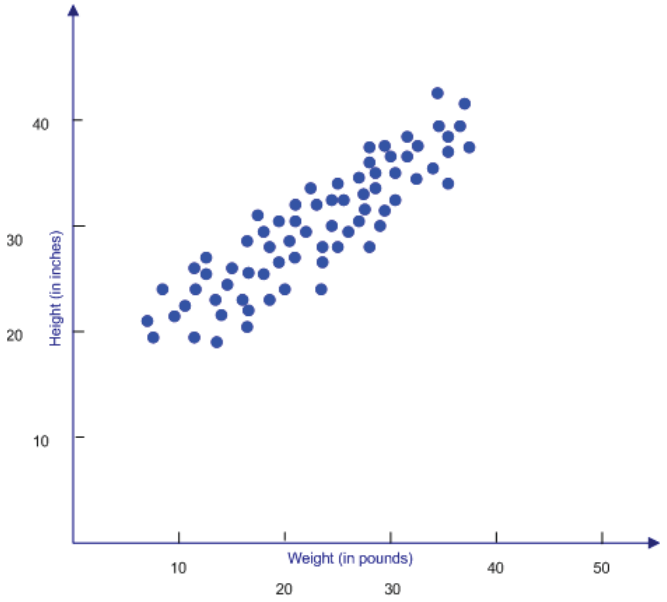
Therefore, $y = mx + b$, $y = \frac{5}{6}x + 3$

Draw a line of best fit, find the slope and y-intercept, and write an equation for the line of best fit.

1.

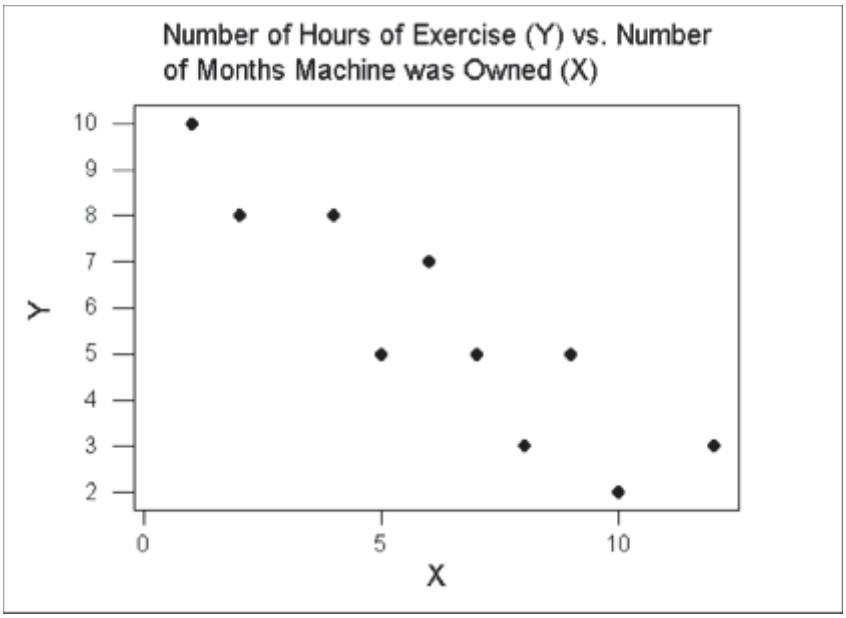


2.



Draw a line of best fit, find the slope and y-intercept, and write an equation for the line of best fit.

3.



4.