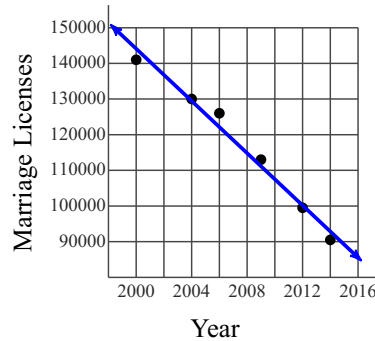


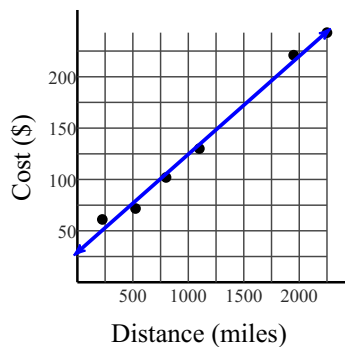
8.SP.3 and 8.SP.2 Practice

- 1) The number of marriage licenses issued by Clark County Nevada, the county where Las Vegas is located, has been decreasing since the year 2000. This can be modeled by $y = -3660.5x + 7465200$ where x is the year and y is the number of marriage licenses issued.



- a) What does the slope of the line represent?
- b) What does the y-intercept of this function represent?
- c) Using this model, how many marriages licenses would you expect to be issued in 2016? Round your answer to the nearest hundred.
- d) According to the model, in what year did Clark County issue 120,000 marriage licenses? Disregard years before 1990. Round your answer to the nearest year.

- 2) The cost of a flight is related to the length of the flight by $y = 0.0955x + 29.1$ where x is distance in miles y is cost in dollars.

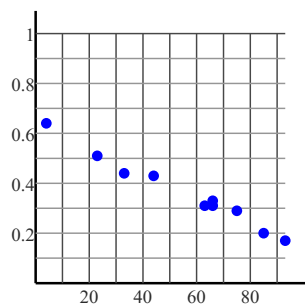


- a) What does the slope of the line represent?
- b) What does the y-intercept of this function represent?
- c) According to the model, how much would a 3000-mile flight cost? Round your answer to the nearest dollar.
- d) What distance corresponds to a cost of \$190? Round your answer to the nearest mile.

Draw a line of best fit and then find the equation for the line.

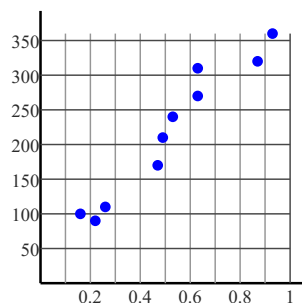
3)

X	Y	X	Y	X	Y
4	0.64	63	0.31	75	0.29
23	0.51	66	0.31	85	0.2
33	0.44	66	0.33	93	0.17
44	0.43				



4)

X	Y	X	Y
0.16	100	0.53	240
0.22	90	0.63	270
0.26	110	0.63	310
0.47	170	0.87	320
0.49	210	0.93	360



Answers to 8.SP.3 and 8.SP.2 Practice

- 1) Slope: The change in the number of marriage licenses issued each year
Y-intercept: The number of marriage licenses issued in the year 0
85,600, 2007
- 2) Slope: The additional cost for each addition mile
Y-intercept: The cost of a flight that doesn't go anywhere
\$316, 1685 miles
- 3) $y = -0.0049887x + 0.63838$
- 4) $y = 365.95x + 28.071$