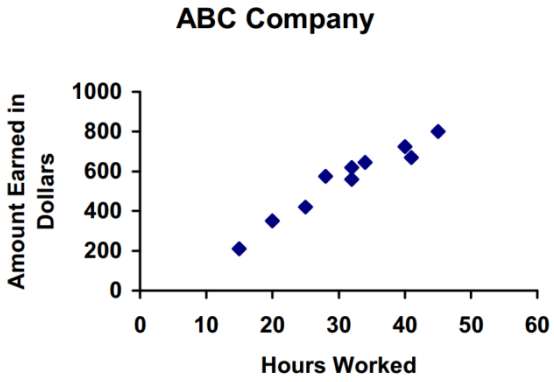
Math 8C Name: _____

U3D1 - ICP Date: _____ Period: _____

1. The scatter plot below shows a relation between two sets of data.

a. Describe the trend as positive, negative or no correlation.

b. Draw in a line of best fit.

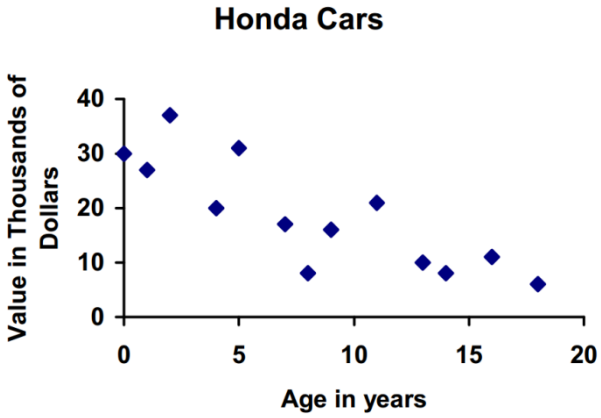


2. The scatter plot shows a relation between the value of a car and its age.

a. Describe the trend as positive, negative or no correlation.

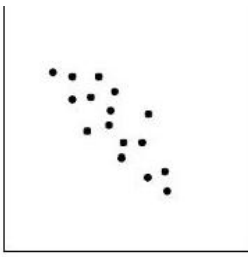
b. Draw a line that best fits the data.

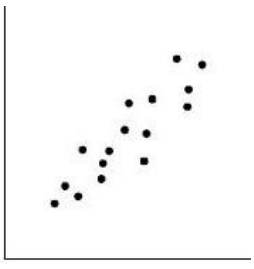
c. Approximate the value of a Honda car that is 5 years old.



3. Describe the trends shown in each of the graphs below.

a.

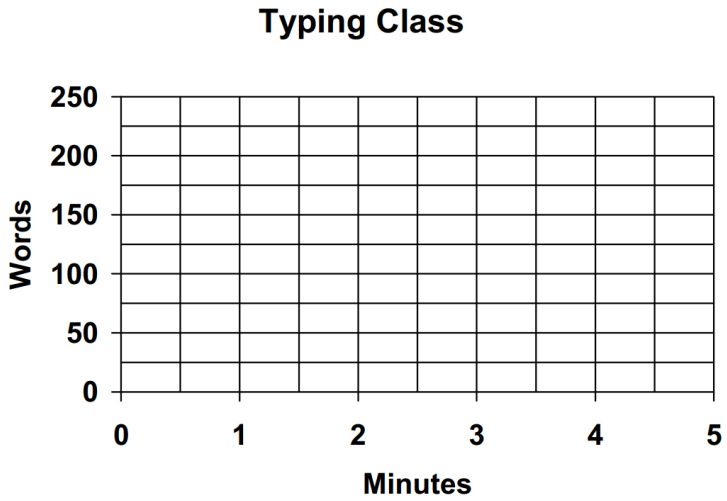




b. Give an example of a graph showing *no* correlation.

4. Take the following information and make a scatter plot using the graph provided.

Name	Minutes	Words
Ash	2	80
Ben	1	30
Carl	4	175
Dave	2	125
Ed	3	140
Jill	4	150
Mandy	2.5	100
Pam	3	100
Rachel	3.5	225
Sue	1.5	50



a. Draw a line of best fit for the data you plotted on the graph.
b. Describe the trend in your scatter plot.

5. Variable ***x*** is the number of hours of training that new employees receive in order to identify different types of Unicorns. The variable ***y*** is the number of calls to the Help Desk. You suspect that more training reduces the number of calls. Would this relationship follow a positive or a negative correlation? Explain your thoughts.

6. The table shows the number of TV's sold versus the price per TV. Plot this data in the graph provided.

#of TVs	37	12	2	30	17	34	20	39	26	23	10	6	25
Price per TV	175	800	1100	400	775	275	725	100	525	750	1000	1250	500

a. Draw in a line of best fit.
b. Describe the trend.

c. Extend your line of best fit to 45 TVs. Don't bend your line! Keep it straight! According to your line of best fit, what should the price per TV be? Does that make sense? Why or why not?