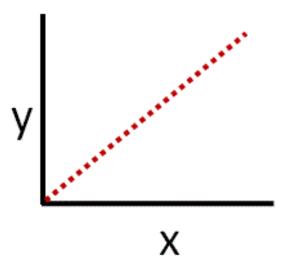
# Grade 8 Unit 5 Vocabulary

## Interpreting Data

(8.5C, 8.5D, 8.11A, 8.11B, 8.11C)

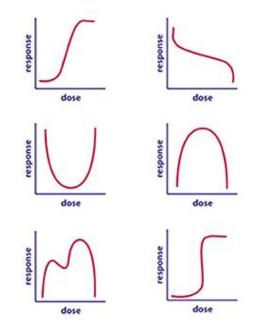
<u>Linear relationship</u> – a relationship with a constant rate of change represented by a graph that forms a straight line

A relationship that makes a straight line when it is graphed.



<u>Non-Linear relationship</u> – a relationship that does not have a constant rate of change and which is not represented by a graph that forms a straight line.

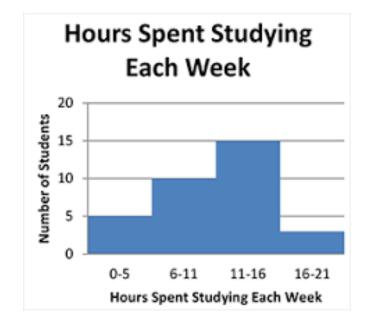
A relationship that DOES NOT make a straight line when it is graphed.





### only one quantitative variable.

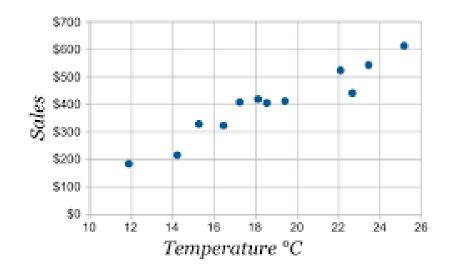
## Data for one variable



## <u>Bivariate Data</u> - Data relating two quantitative variables that can be represented by a scatterplot.

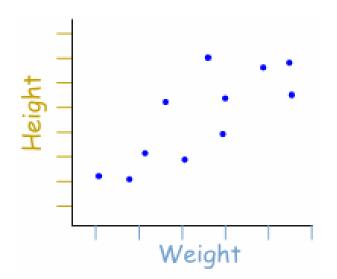
## Data for two variables

Height(cms)	Weight(Lbs)
1 <mark>6</mark> 0	145
176	163
165	171
180	153
171	173
149	182
158	123
181	142



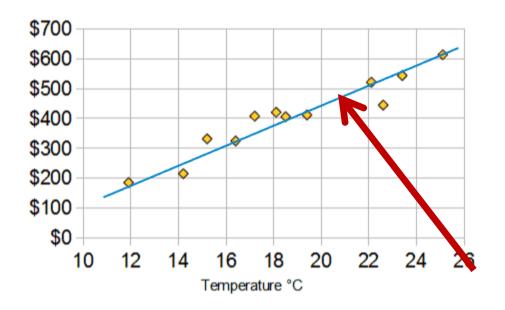
<u>Scatterplot</u> – a graphical representation used to display the relationship between discrete data pairs

A graph of plotted points that show the relationship between two sets of data.



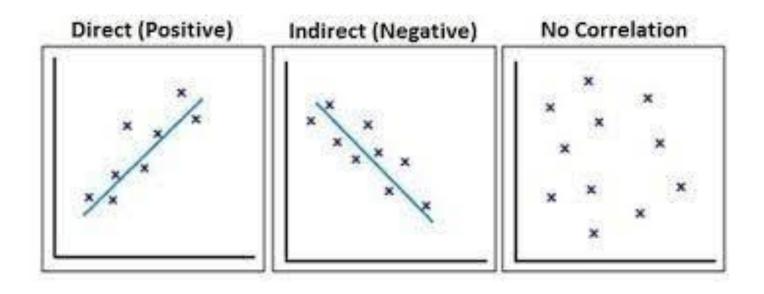
<u>*Trendline*</u> – the line that best fits the data points of a scatterplot

A line on a graph showing the general direction that a group of points seem to be heading.



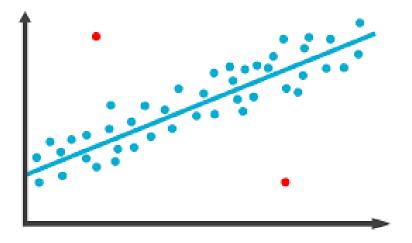
<u>*Correlation*</u> – a mutual relationship or connection between two or more things

The association or pattern of the points on a scatterplot. Can be +, -, or none.



<u>Outlier</u> – A value that "lies outside" (is much smaller or larger than) most of the other values in a set of data.

A very big or small number compared to others in a set



<u>Mean Absolute Deviation</u> – a measure of variability that indicates the average distance between each observation and the mean.

How far, on average, all values are from the middle.

() Hean:  

$$28+30+28+39+25=15033$$
(2) Differences:  

$$-\frac{30}{28}=\frac{30}{30}=\frac{30}{30}=\frac{30}{25}=\frac{30}{25}=\frac{30}{25}=\frac{30}{25}=\frac{28}{5}=\frac{30}{5}=\frac{215}{5}=\frac{316}{5}=\frac{31$$

<u>Survey</u> – To gather information by individual samples so we can learn about the whole thing.

#### collecting a sample of data by asking people questions

#### Favorite Pets

Pet	Tally Marks
	-## -##
	))))
•	-##1