

Scatter Plots *..continued*

Recall from last day:

A **scatter plot** is a graph that shows the _____ between **two** variables.

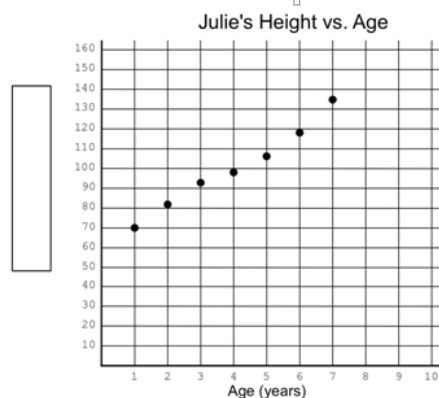
The points in a scatter plot often show a pattern, or _____.
From the pattern or **trend** you can describe the _____.

Example:

Julie gathered information about her age and height from the markings on the wall in her house.

Age (years)	1	2	3	4	5	6	7	8
Height (cm)	70	82	93	98	106	118	127	135

- Label the vertical axis.
- Describe the trend in the data.
- Describe the relationship.



Variables

The *independent variable* is located on the _____ axis.

This variable does _____ depend on the other variable.

The *dependent variable* is located on the _____ axis.

This variable depends on the other variable.

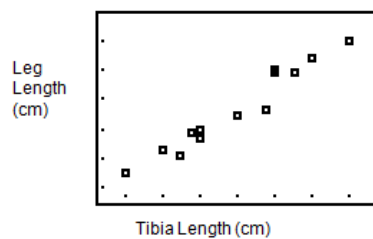
Independent variable: _____

Dependent variable: _____

Note:
The independent variable comes *first* in the table of values.

Use the whiteboards to provide your answer to the following:

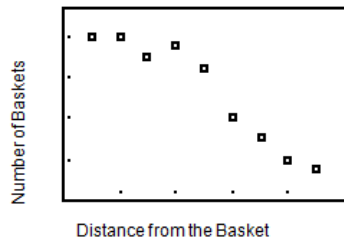
Is There a Relationship?
As a person gets taller their <u>armspan</u> _____. (<i>gets wider, gets smaller, stays the same</i>)
The longer a person's legs are _____ they run. (<i>the faster, the slower, will make no difference to how fast</i>)
As a person's foot size increases, their walking <u>stride</u> _____. (<i>gets longer, gets shorter, stays the same</i>)
As a person's forearm gets longer, their <u>armspan</u> _____. (<i>gets longer, gets shorter, stays the same length</i>)
The longer a person's thumb is _____ their index finger. (<i>the longer, the shorter, will make no difference to the length of</i>)
As a person gets taller, their foot size _____. (<i>gets longer, gets shorter, is not affected</i>)



1. The graph shows the plotted points rising upwards to the right.
 - Agree
 - Disagree
 - Pass

2. As the length of the tibia increases the length of the leg increases.
 - Agree
 - Disagree
 - Pass

3. The graph can be used to determine the length of a person's leg if you know the length of the tibia bone.
 - Agree
 - Disagree
 - Pass



1. The graph shows the plotted points falling to the right.
 - Agree
 - Disagree
 - Pass
2. As the distance from the net increases the number of baskets made decreases.
 - Agree
 - Disagree
 - Pass
3. The graph can be used to determine the number of baskets you will make if you know the distance from the basket.
 - Agree
 - Disagree
 - Pass

1. The graph shows the plotted points scattered.

- Agree Disagree Pass

2. As the age of the house increases the price of the house is either large or small.

- Agree Disagree Pass

3. The graph can't be used to determine the price of the house if you know how old it is.

- Agree Disagree Pass

