

## Learning Targets

- I can construct a bar graph, pie chart, pictograph and line graph to graph categorical data.
- I can identify what makes a graph/table good and what makes a graph/table misleading.

Oct 25-9:01 PM

**Data:** A collection of facts, measurements or observations about a set of individuals.

**Categorical Data** (qualitative variable): Data that is in categories (examples: favorite color, favorite food, favorite shoe brand).

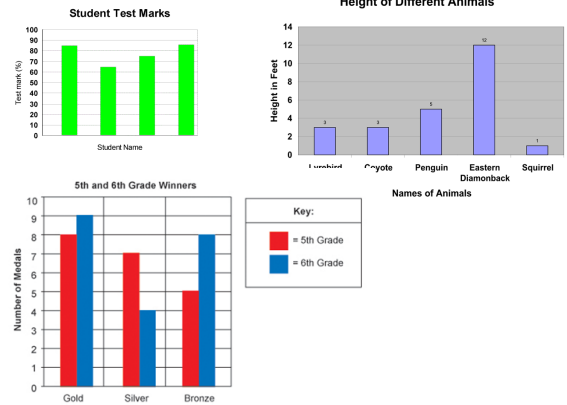
**Numerical Data** (quantitative variable): Data that is measured in numbers (examples: height, weight, miles traveled per day).

Oct 8-8:00 AM

## Graphing Categorical Data

### Graphing Categorical Data

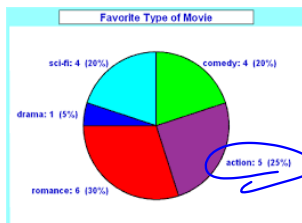
#### 1. Bar Graph



Oct 8-8:03 AM

Oct 25-9:10 PM

2. Pie Chart for categorical data (used to compare parts of a whole (100%))



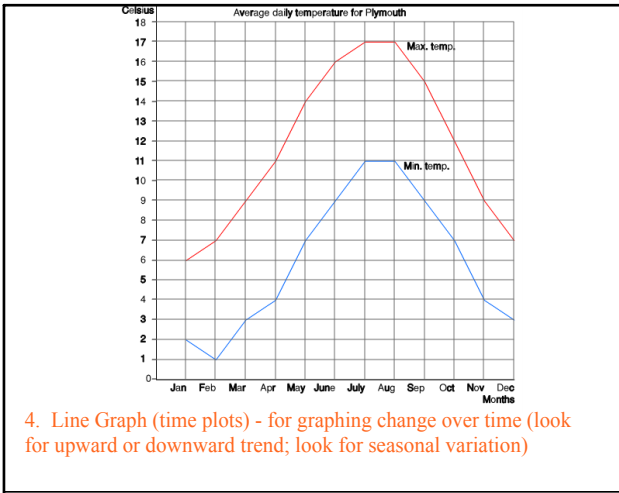
5000 people  
 25%  
 $5000 \cdot .25 = 1125$  people

Oct 25-9:16 PM

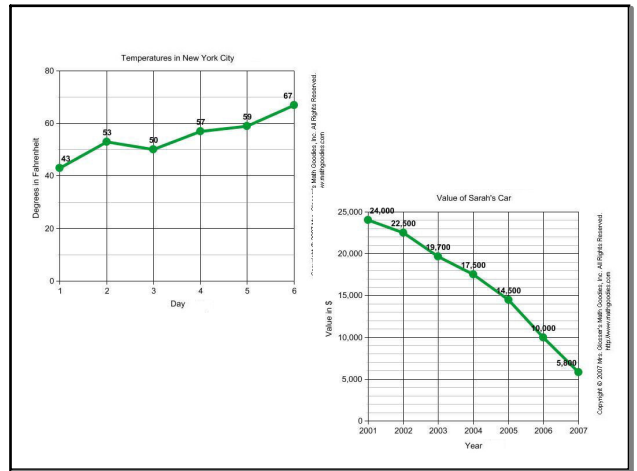
3. Pictograms - bar graphs that use pictures instead of bars (all pictures must be the same size)



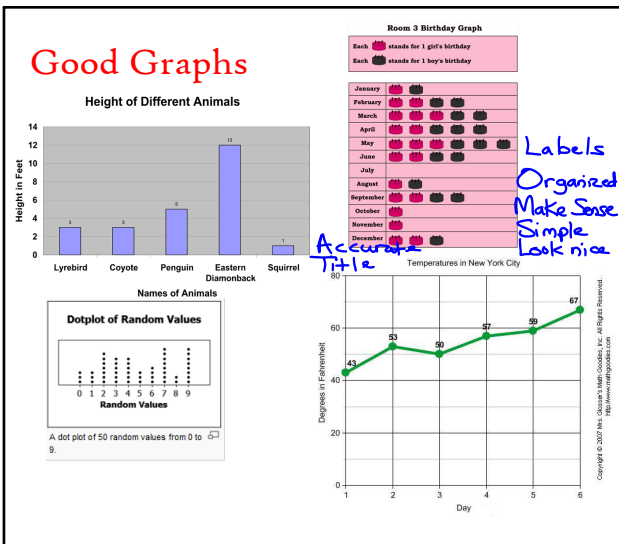
Oct 25-9:24 PM



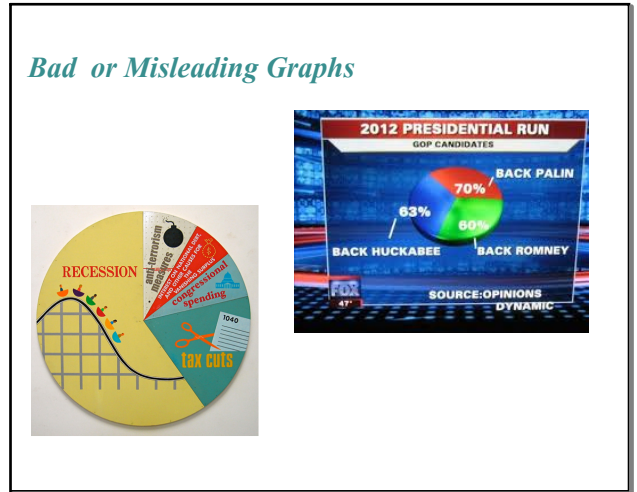
Line graph - example



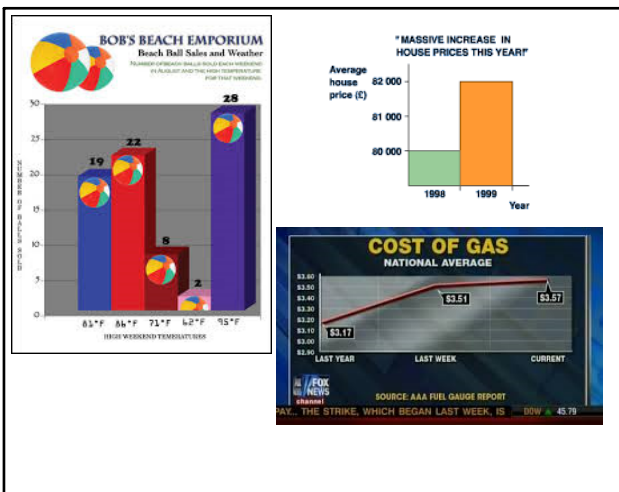
Oct 25-9:31 PM



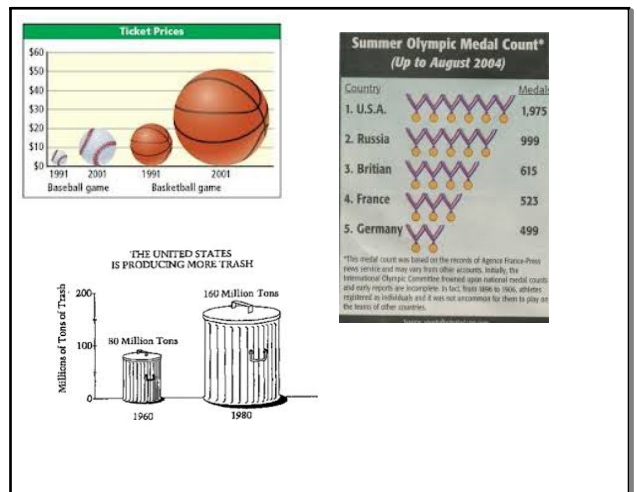
Oct 25-9:40 PM



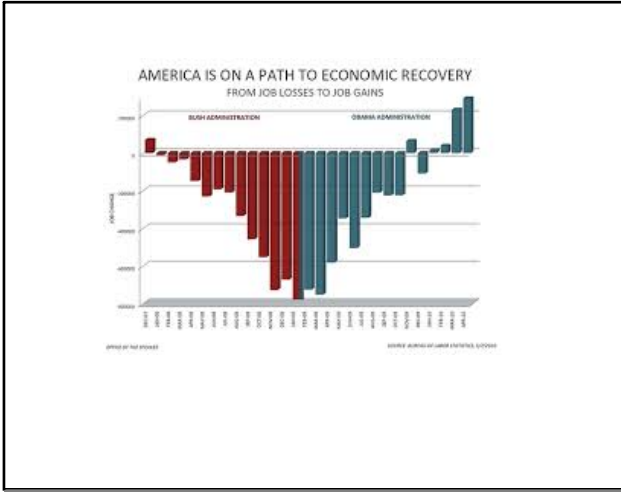
Oct 25-9:18 PM



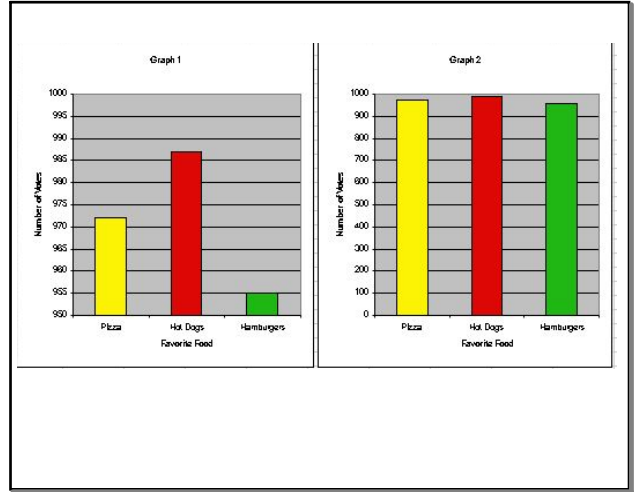
Jan 25-9:22 PM



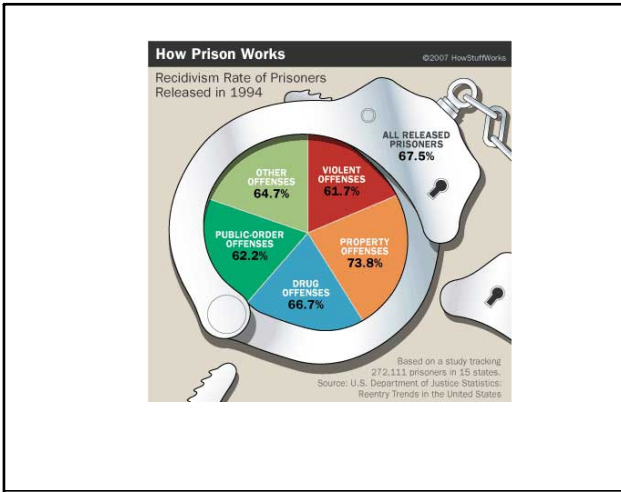
Jan 25-9:32 PM



Jan 25-9:34 PM



Oct 25-9:48 PM



Jan 23-5:11 PM

**Assignment**  
Section 5.1 #1abd,2-5  
P. 142  
**Learning Targets**

- I can construct a bar graph, pie chart, pictograph and line graph to graph categorical data.
- I can identify what makes a graph/table good and what makes a graph/table misleading.

Oct 25-10:02 PM