

7.1

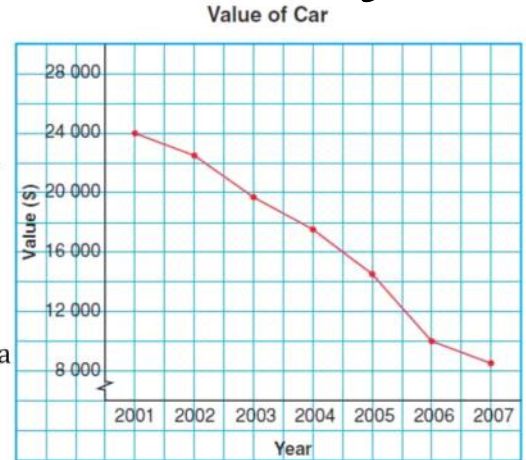
Thursday, January 28, 2016 8:40 AM

Unit 7: Data Analysis and Probability
7.1 Choosing an Appropriate Graph

Each type of graph has its strengths and limitations.

Line Graph - displays data that changes over time. Line segments join data points on a line graph.

- A line graph is:
- easy to read and draw
 - can have a zigzag symbol on the vertical axis when the data starts at a large number
 - is best used to show data gathered over time
 - can be used to estimate values between data points and beyond data points



Double Bar Graph - displays 2 sets of data that can be counted. The lengths of the bars are used to compare and count the data.

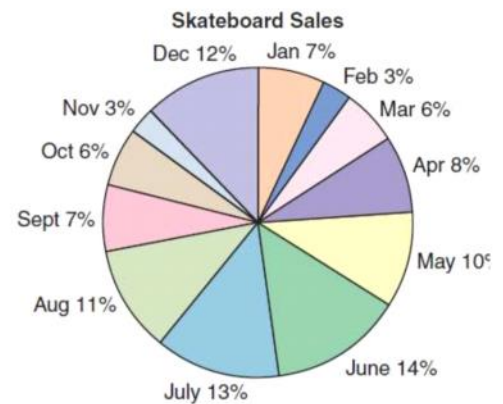


A double bar graph:

- is easy to read and draw
- can be used to directly compare two sets of data
- can only be used to show discrete data
- may be difficult to read depending on the scale used

Circle Graphs - displays a set of data relating to a whole. The size of the sectors help compare the data.

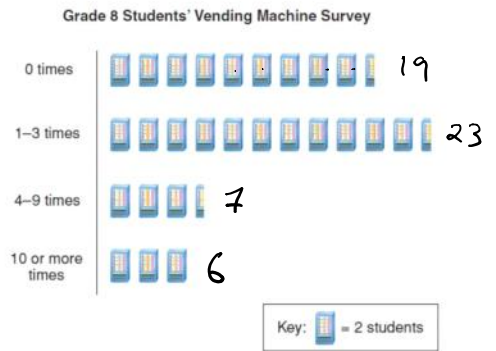
- A circle graph is:
- sometimes difficult to draw and collect data from
 - can only be used to display the data relating to a whole



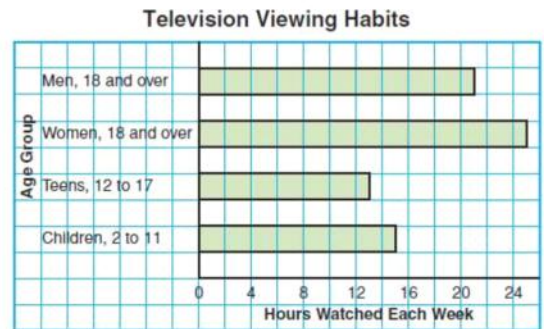
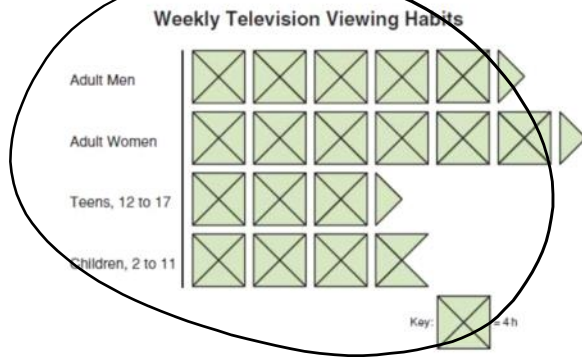
Pie chart

Pictograph – displays data using pictures and displays a key to read the information.

A pictograph:
 - is visually appealing but difficult to draw
 - sometimes difficult to read



1. Use these graphs to answer the following:



a) List three things you know from the bar graph.

- women over 18 watched more tv than men by over 4 hours
- Teens 12-17 watched the least amount of tv
- children watched 15 hours/week.

b) List three things you know from the pictograph.

- ^{Adult} women watched the most tv
- ^{Adult} women watched more tv than men
- Teens watched the least

c) What graph is more appropriate to display the data? Explain or justify your choice.

Bar graph? Easier to determine the # of hours each group watches.

Assignment: p. 387 #4-6, 8, 13

