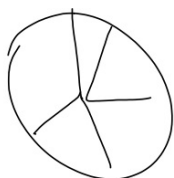


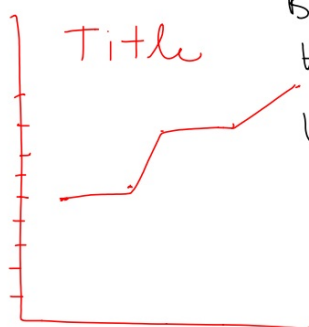
Alg 1 0.13

Represent sets of data using different visual displays

- frequency table
- bar graph
 - horizontal
 - vertical
- cumulative frequency
- histogram
- line graph
- stem-and-leaf plot
- circle graph (pie chart)
- box-and-whisker plot (boxplot)



label



label

Which Type?

Bar graph
Histogram
Line graph
Circle graph
Boxplot

Totals compared

Trend over time

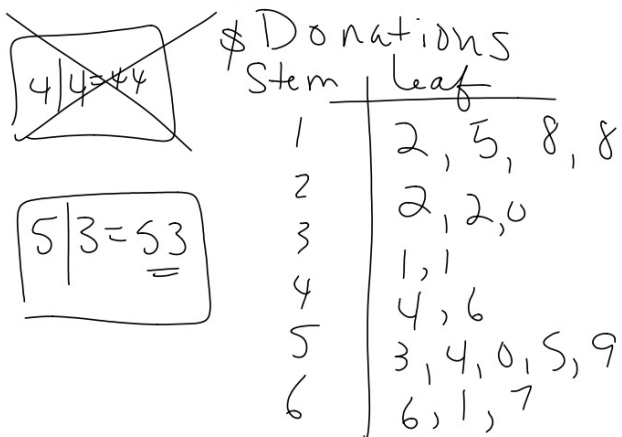
% of whole thing

Compare groups (quantiles)

Stem & Leaf plot

12 15 22 31 18 44 53 66 54 22 31 61 50 46 67
55 18 20 59

Always need key



Angle measurement WS

- ① Number of degrees in a circle?
- ② Percent (or fraction)
- ③ Degrees (if needed)
- ④ Measure
- ⑤ Label w. %

360

Example 5 Make a Circle Graph

The table shows how Lily spent 8 hours of one day at summer camp. Make a circle graph of the data.

Summer Camp		
Activity	Hours	
✓ canoeing	3	$\frac{3}{8}$
✓ crafts	1	$\frac{1}{8}$
✓ eating	2	$\frac{2}{8}$
✓ hiking	2	$\frac{2}{8}$

~~37.5%~~

~~12.5%~~

~~25%~~

~~25%~~

8

135°

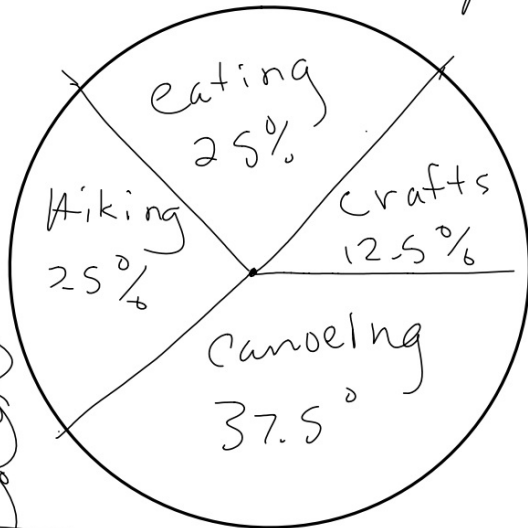
45°

90°

90°

360°

Summer Camp



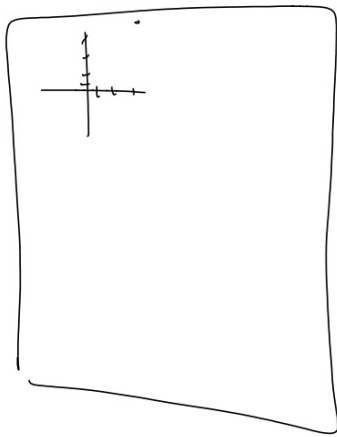
Example 6 Make a Box-and-Whisker Plot



Draw a box-and-whisker plot for these data. Describe how the outlier affects the quartile points.

14, 30, 16, 20, 18, 16, 20, 18, 22, 13, 8

Boxplot



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8-13