

Alg 1 0.13

Represent sets of data using different visual displays
Determine the best type of graph for a given type of data

frequency table

bar graph

horizontal

vertical

~~cumulative frequency~~

histogram

line graph

stem-and-leaf plot

→ circle graph (pie chart)

→ box-and-whisker plot (boxplot)



Stem & Leaf plot

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

Stems	Leaves
1	2, 5, 8, 8
2	2, 2, 0
3	1, 1
4	4, 6
5	3, 4, 0, 5, 9
6	6, 1, 7

$$\boxed{1 \mid 2 = 12}$$

Always need key

Angle measurement WS



Number of degrees in a circle?
Percent (or fraction)
Degrees (if needed)

360°

1. Fraction
2. %
3. % · 360

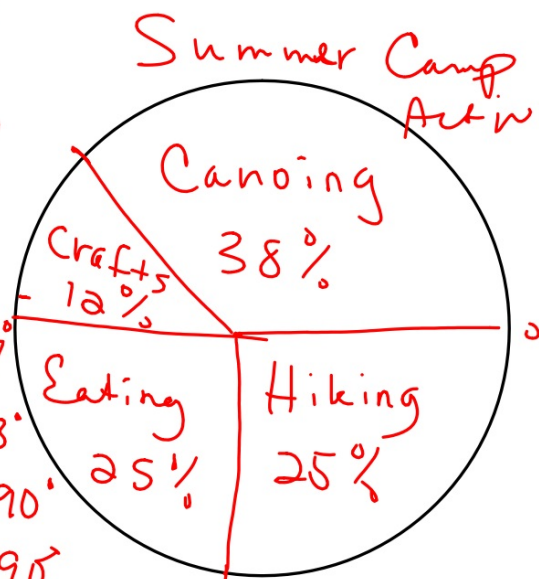
Example 5 Make a Circle Graph

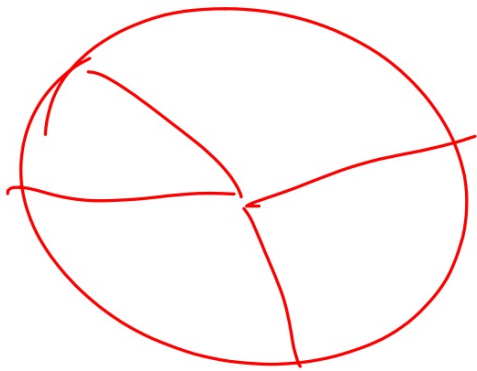
The table shows how Lily spent 8 hours of one day at summer camp. Make a circle graph of the data.

Summer Camp	
Activity	Hours
canoeing	3
crafts	1
eating	2
hiking	2

8

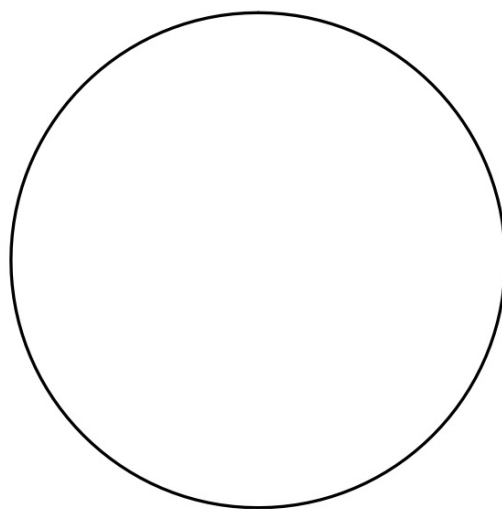
$$\begin{aligned} \frac{3}{8} &= 38\% & 137^\circ \\ \frac{1}{8} &= 12\% & 43^\circ \\ \frac{2}{8} &= \frac{1}{4} = 25\% & 90^\circ \\ \frac{2}{8} &= \frac{1}{4} = 25\% & 90^\circ \end{aligned}$$





Favorite sports

Graph Fri HW



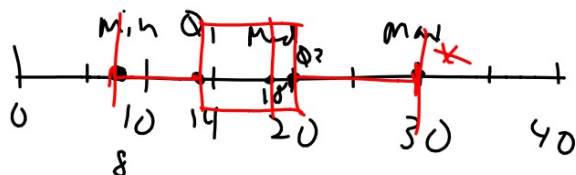
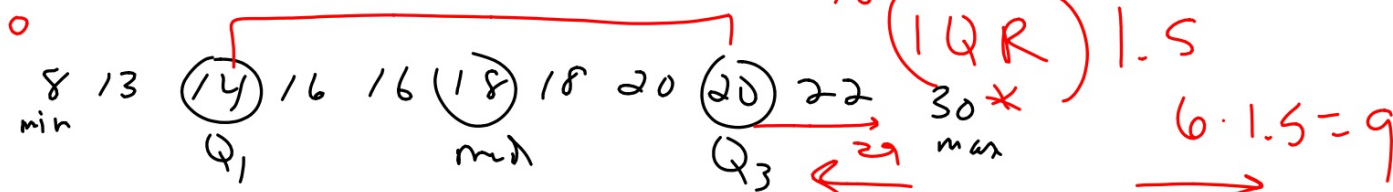
Example 6 Make a Box-and-Whisker Plot

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

~~14, 20, 16, 20, 16, 16, 20, 16, 22, 16, 8~~



Boxplot



Bar → categories

Hist → numerical

Line → trends

Circle → out of 100%

Boxplot → spread

P-46

8-14 + Fav-Sport