#### Alg 1 0.13

Represent sets of data using different visual displays

frequency table

þar graph

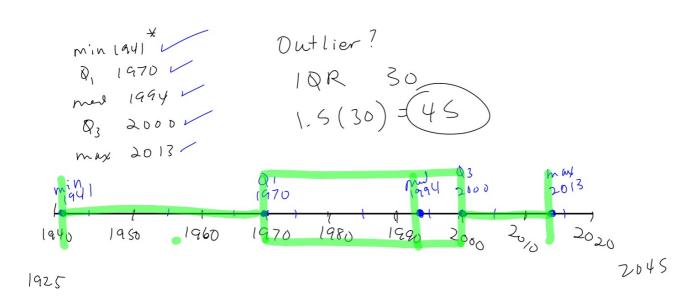
horizontal vertical

cumulative frequency
histogram - Numery cel
line graph + rends

stem-and-leaf plot

circle graph (pie chart)

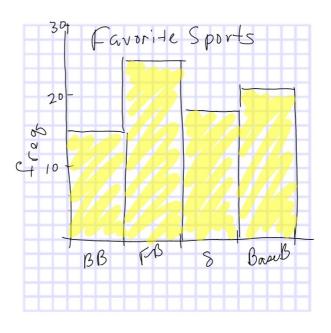
box-and-whisker plot (boxplot)



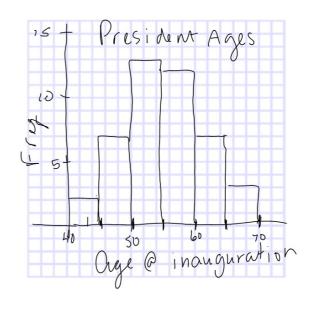
# Example 1 Make a Bar Graph

Make a bar graph to display the data.

	Sport	Tally	Frequency
4	basketball	MMM	15
۷	football	иииии	25
Ų	soccer	IIINNNN	18
(	<del>ba</del> seball	ואאאאו	21



Make histograms of the frequency						
Age at Inauguration	40-44	45-49	50-54	55-59	60-64	65-69
U.S. Presidents	2	7	13	12	7	3

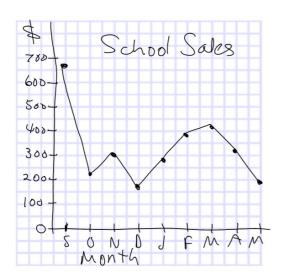




### **Example 3** Make a Line Graph

Sales at the Marshall High School Store are shown in the table. Make a line graph of the data.  $\top \land \land \land \land \land$ 

School Store Sales Amounts					
September	\$670	December	\$168	March	\$412
October	\$229	January	\$290	April	\$309
November	\$300	February	\$388	May	\$198





# Real-World Example 4 Make a Stem-and-Leaf Plot



ANIMALS The speeds (mph) of 20 of the fastest land animals are listed at the right. Use the data to make a stem-and-leaf plot.

	Land
Stens	lest Speed
3	526525
4	200053580
S /	000
طر 7	3 5=35

42	40	40	35	50
32	50	36	50	40
45	70	43	45	32
40	35	61	48	35

Source: The World Almanac

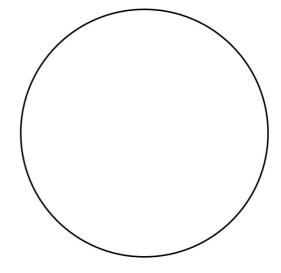
Angle measuring activity

P-45 4-9 Number of degrees in a circle?

#### 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		



### 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