

Order the numbers from smallest to largest

76, 76, 85, 85, 85, 94, 94, 95

Median

the number in the middle of a set of data;

if there are two numbers, you find the average of them

76, 76, 85, 85, 85, 94, 94, 95

$$85 + 85 = 170 \div 2 = 85$$

Mode

the number that occurs most often

76, 76, 85, 85, 85, 94, 94, 95

Range

the difference between the highest and lowest numbers

$$95 - 76 = 19$$

Speed of Cars on SP Lane

52, 37, 58, 45, 59, 33,
43, 40, 67, 44, 39, 52

Frequency Tables

make even intervals for the numbers

tally how often a number occurs within each interval

30-39 ||| 3

40-49 |||| 4

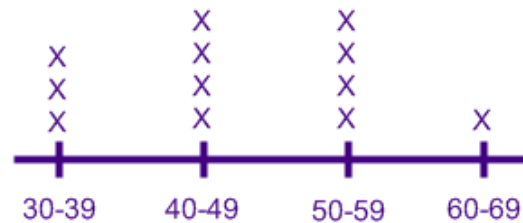
50-59 |||| 4

60-69 | 1

Line Plot

put the intervals on a number line

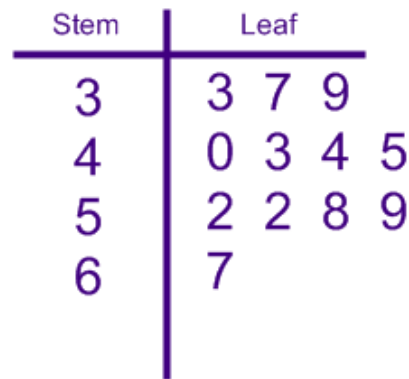
put an X above the interval for each number within that range



Stem and Leaf Plot

Stem - tens

Leaf - ones



Car Sales

Year	Red	Blue
1999	100	25
2000	125	50
2001	75	175
2002	25	225

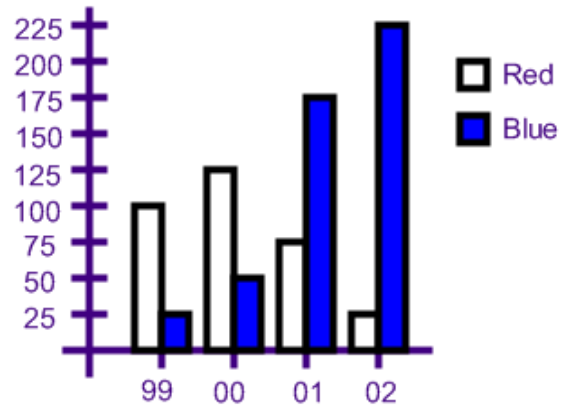
Bar Graphs

horizontal axis - for the options

vertical axis - for the numbers

draw a bar for each group of numbers up to that number on the graph

for multiple bars, be sure to include a key



Line Graphs

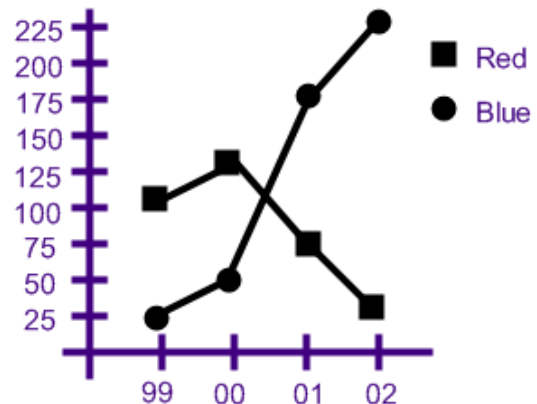
horizontal axis - for the options

vertical axis - for the numbers

plot a point for each of the numbers

connect the lines for each group

for multiple lines, be sure to include a key

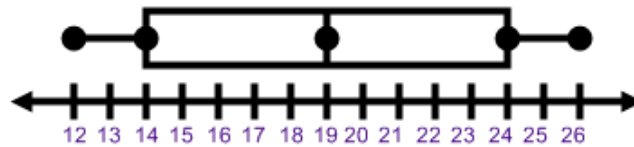


12, 13, 14, 15, 19, 19, 19, 21, 24, 25, 26

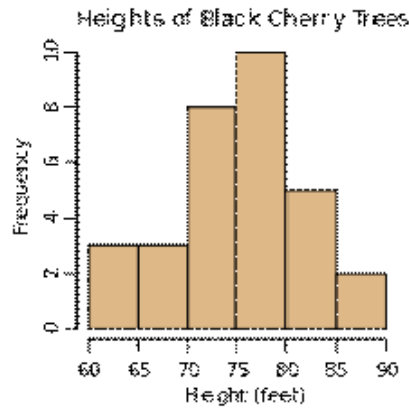
Box and Whisker Plot

Median	the middle number	19
Quartile		
Upper Quartile	the middle of the top half	24
Lower Quartile	the middle of the bottom half	14
Extreme		
Upper Extreme	the highest number	26
Lower Extreme	the lowest number	12
Interquartile Range	the difference between the upper and lower quartiles	$24 - 14 = 10$

Draw the box and whisker plot. create a number line with all of the numbers within the range
 put a point on each of the numbers you just found
 connect the box for the quartiles, and lines to the extremes



Histograms



How to read a histogram

Bottom numbers represent a certain variable - in this case, height of the cherry trees

Side numbers represent the amounts - in this case, how many cherry trees

the bars represent the amount of the variable within that range - in this case, how many cherry trees fit within that range