

Notes for Chapter 6

6-1 Make a Table (Page 272)

The following table contains data on Hurricane Josh's strength changing over time:

Date 1998	Wind Speed
October 24	90 mph
October 26	130 mph
October 27	150 mph
October 31	40 mph
November 1	30 mph

What can you tell me based on the information given in this table?

The following table contains data to show temperature change over a day span:

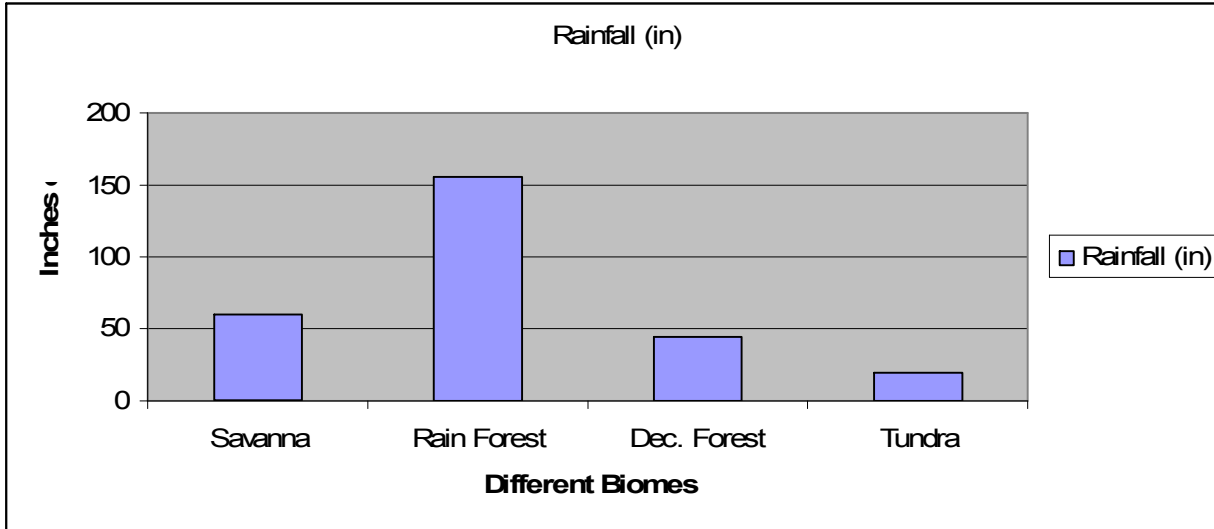
Time	Temperature
10 AM	62
Noon	65
2 PM	68
4 PM	70
6 PM	66

What can you tell me based on the information given in this table?

Ex # 1) Mr. Quinn has an interesting diet. On Monday he consumed 1740 calories, Tuesday 1500 calories, Wednesday 1680 calories, Thursday 1900 calories, and on Friday 2150 calories. Create a table to show this data and his eating habits.

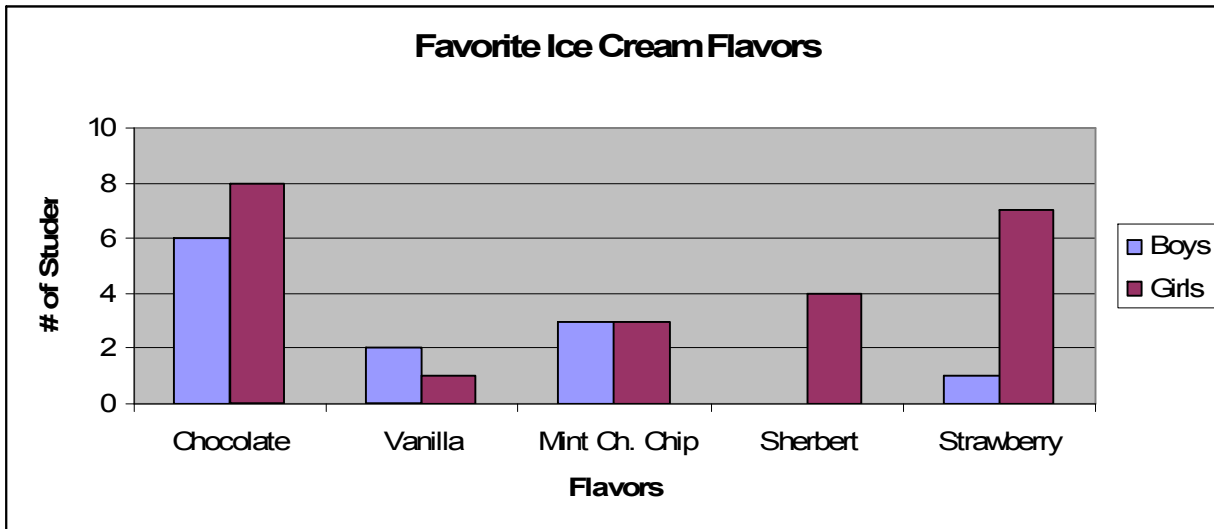
6-4 Bar Graphs (Page 284)

The following bar graph contains data to show average rainfall in the different biomes:



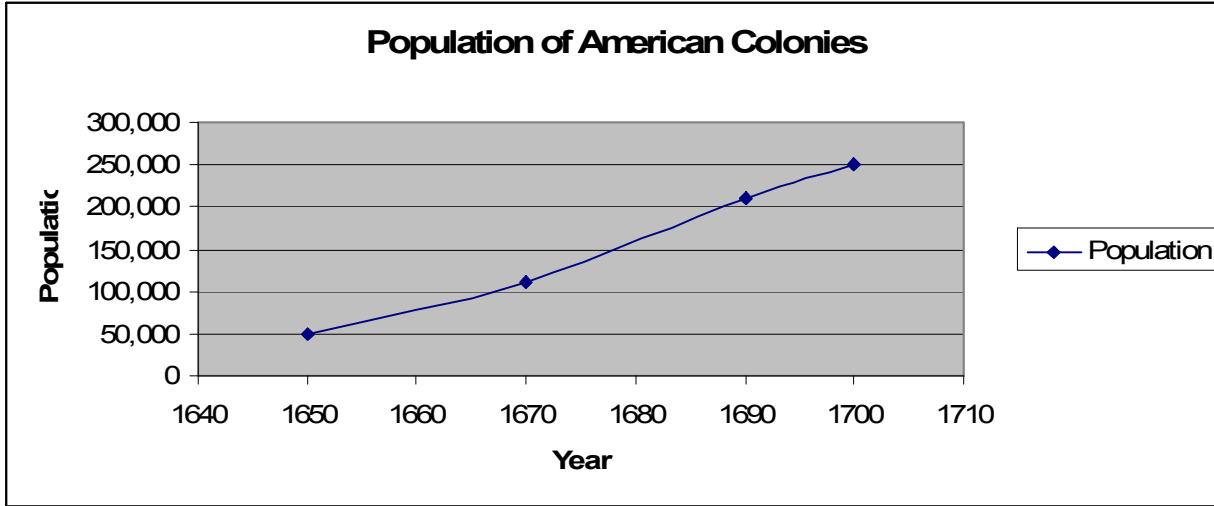
What can you tell me about the data in this graph?

The following data shows the favorite Ice Cream flavors in Mrs. Smith's Class:

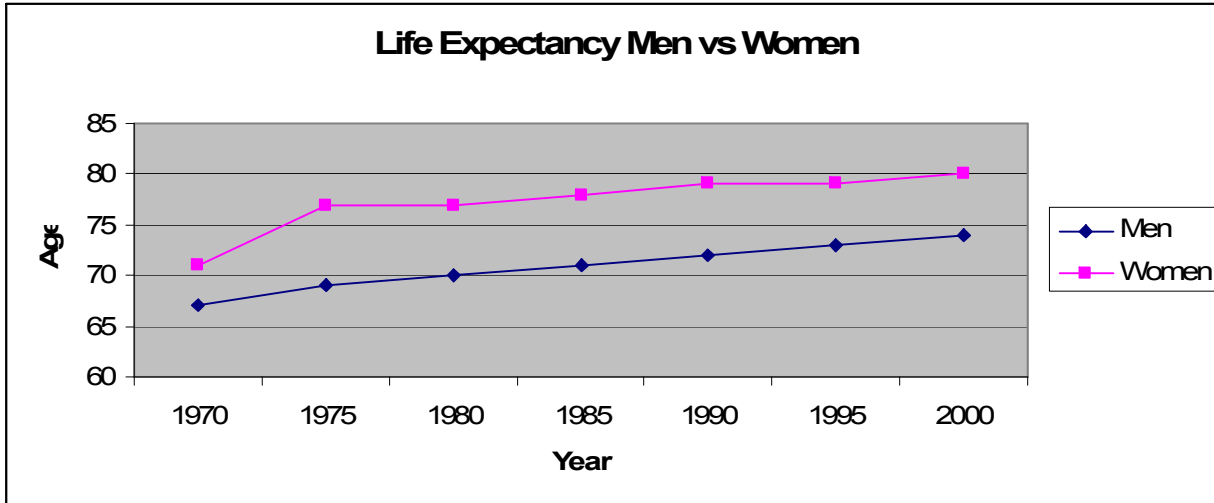


6-7 Line Graphs (Page 297)

Population of American Colonies

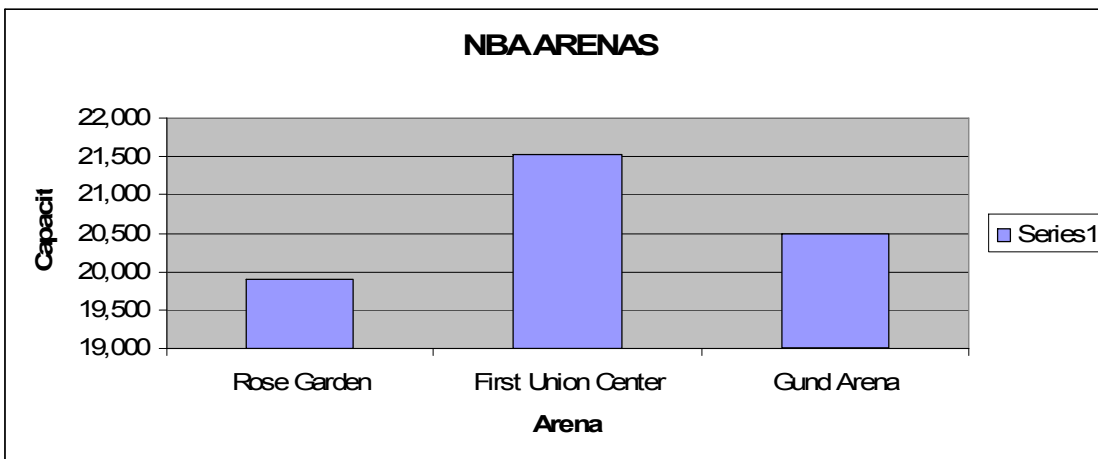


Life Expectancy in the United States



6-8 Misleading Graphs (Page 301)

The following graph is showing the seating capacity of certain arenas:



6-2 Range, Mean, Median, Mode (Page 301)

Range = difference between the highest and lowest numbers in a set of numbers

Mean = the average (add up all of the values and divide by the number of numbers)

Median = the middle number in the set when lined up least to greatest

Mode = the number that appears most often in a set of numbers – there may be none

Identify the mean, median, mode, and range of the following set of numbers:

13, 23, 21, 20, 21, 24, 18

- 1) First put in order least to greatest
- 2) Find the range – subtract highest and lowest
- 3) Find the mode – the number that appears most often
- 4) Find the median – the middle number in the set (if even number of numbers find the two middle ones and find the average)
- 5) Find the mean – average (add all up and divide by how many numbers are in the set)

Identify the mean, median, mode, and range of the following set of numbers:

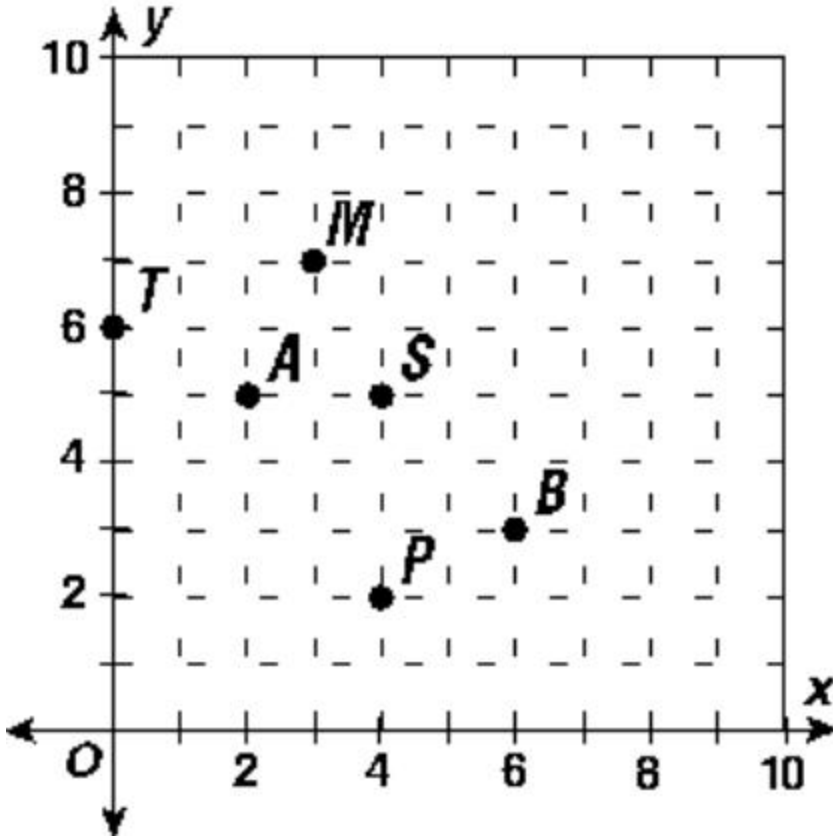
145 – 100 – 126 – 125

Identify the mean, median, mode, and range of the following set of numbers:

23 – 78 – 45 - 22

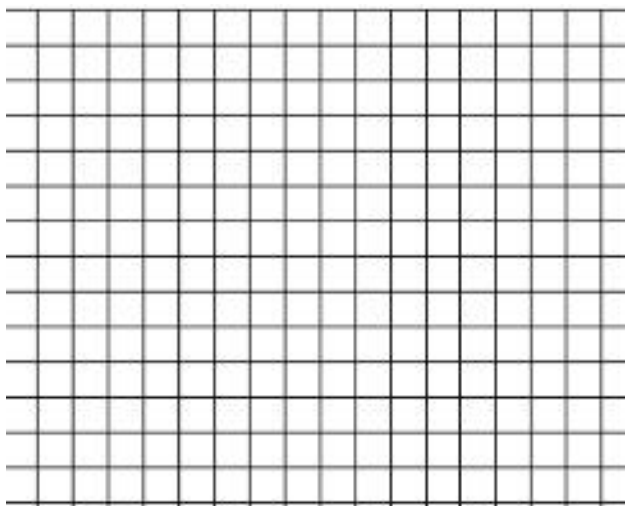
6-6 Ordered Pairs (Page 294)

When plotting points or identifying coordinates you must go left or right first then up or down second. Remember you must walk to the elevator before you can take it up or down.



What are the coordinates for the following letters? Be sure to put X first Y second.

- 1) T
- 2) A
- 3) M
- 4) S
- 5) P
- 6) B
- 7) X



Plot the following coordinates with correct letter.

- 8) X (5, 2)
- 9) R (1, 1)
- 10) Q (6, 5)
- 11) D (9, 0)
- 12) J (0, 8)
- 13) B (4, 4)
- 14) Y (9, 3)

6-5 Frequency Table and Histograms (Page 290)

Tally Table

Number of Fingerprint patterns		
Whorl	Arch	Loop
III	IIII	IIII II

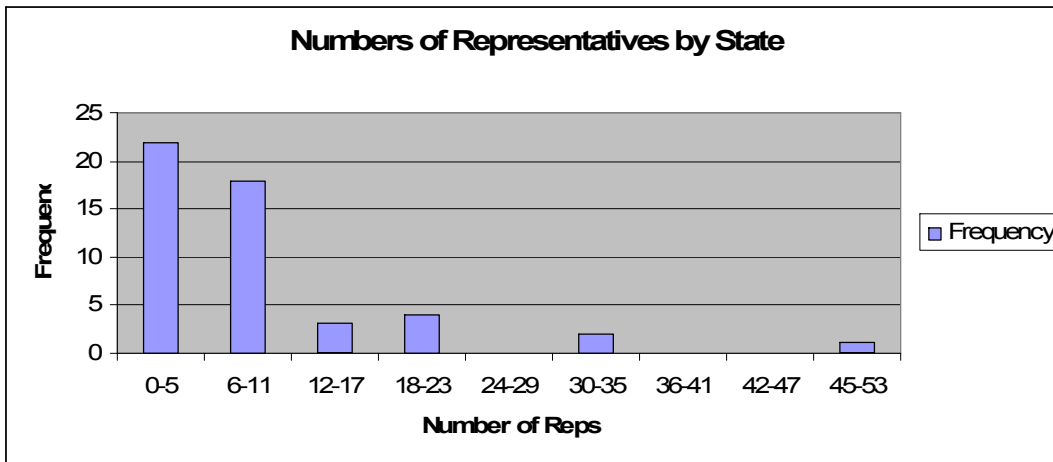
Cumulative Frequency Table

Number of Fingerprint patterns		
Finger Print Patterns	Frequency	Cumulative Frequency
Whorl	3	3
Arch	4	7
Loop	7	14

Frequency table with Intervals

Number of Representatives per state in US House of Representatives									
Number	0-5	6-11	12-17	18-23	24-29	30-35	36-41	42-47	48-53
Frequency	22	18	3	4	0	2	0	0	1

Histogram (a graph of the frequency table with intervals)



Practice B**6-5 Frequency Tables and Histograms**

Mr. Allen said that his students could choose one day a week to not have homework assigned. He recorded their votes in the box below.

Monday	Friday	Thursday	Friday	Wednesday
Friday	Tuesday	Wednesday	Friday	Monday
Tuesday	Monday	Friday	Monday	Friday

1. Make a tally table to organize the data. Which day got the most votes?
2. Use your tally table from Exercise 1 to make a cumulative frequency table. How many students voted in all?

Tally Table for Homework Votes

Mon	
Tues	
Wed	
Thurs	
Fri	

Number of Votes

Day	Frequency	Cumulative Frequency
Mon		
Tues		
Wed		
Thurs		
Fri		

3. Use the data in the box below to make a frequency table with intervals.

Class Social Studies Test Scores									
78	95	81	83	75	68	100	73	92	85
59	70	88	92	99	87	75	67	89	84

Class Social Studies Test Scores					
Scores					
Frequency					

4. In which range of scores did most of the students' tests fall?