Name: _____   Date: _____
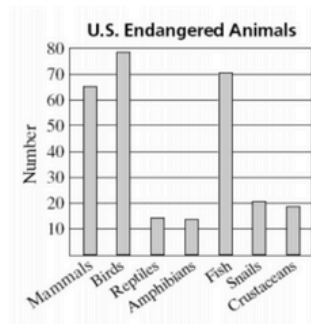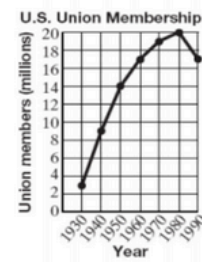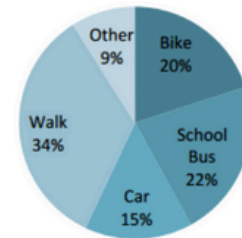Math 620 – Analyzing Data: Homework

1. The bar graph at the right displays the number of endangered species of animals in the U.S.

   a. Which animal has the most endangered species?

   b. Which animal has the least endangered species?

   c. How many species of snails are endangered?

   d. How many more species of fish are endangered than crustaceans?

U.S. Endangered Animals

Mammals, Birds, Reptiles, Amphibians, Fish, Snails, Crustaceans

2. The line graph at the right displays the number of union members from 1930 to 1990 in the U.S.

   a. What was the lowest number of union members from 1930 to 1990?

   b. During what years did the number of union members decline?

U.S. Union Membership

Union members (millions) — Year 1930–1990

3. Students at Eaglecrest Middle School were asked how they get to school. The circle graph at the right displays the results of 827 students.

   a. How many students walk to school?

   b. How many students ride the school bus?

Other 9%, Bike 20%, Walk 34%, School Bus 22%, Car 15%

4. Suppose your grades on five math exams are 93, 86, 78, 67, and 95. What grade do you need on your next math exam to have an average of 85?
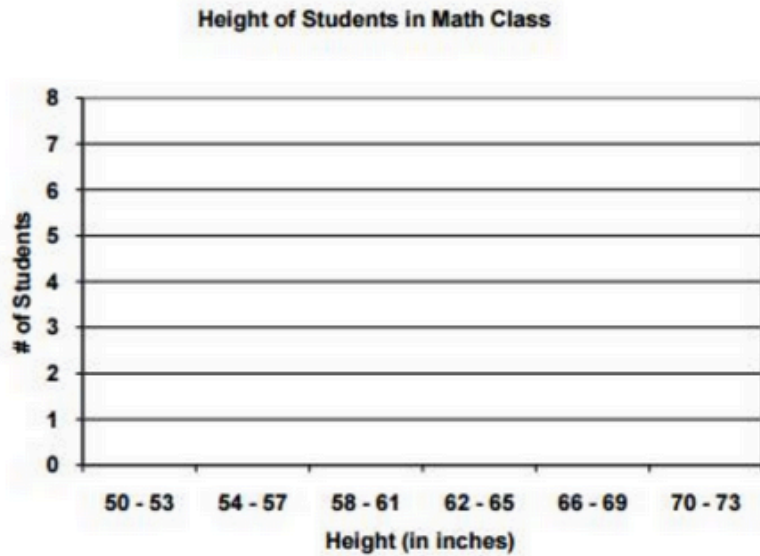
5.

Heights of students in Mr. Smith's Math Class:

57"	53"	62"	71"	59"	60"	51"	64"
60"	57"	61"	60"	73"	56"	63"	66"

a)   Using the data above, complete the frequency distribution table.

Height (in inches)	Tally	Frequency	Cumulative Frequency
50-53"			
54-57"			
58-61"			
62-65"			
66-69"			
70-73"			

b)   Using the frequency table in part (a), create a histogram.

Height of Students in Math Class

c)   Using the histogram above, determine the number of students who are between 54 and 65 inches tall.

d)   How many total students are in the class?

e)   Your teacher is 61 inches tall. How many students are taller than your teacher?

f)   State the range of the heights.