Precalc14.1

Draw, analyze, and use bar graphs and histograms
Organize data into a frequency distribution table

line plot

bar graph

frequency distribution

range

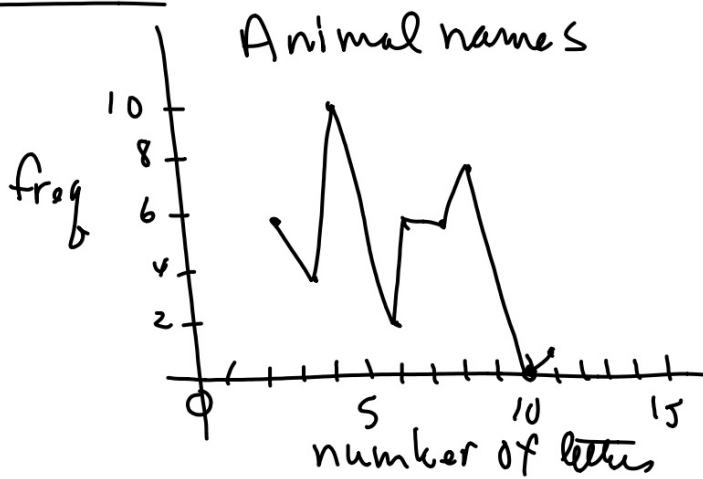class interval (5-8) friendly numbers

class limits

class marks

histogram

frequency polygon

Write down as many different animals as you can think of in 1 minute.
Count the number of letters in each word. Record this information in a frequency table.
Choose an appropriate class interval to organize the data.
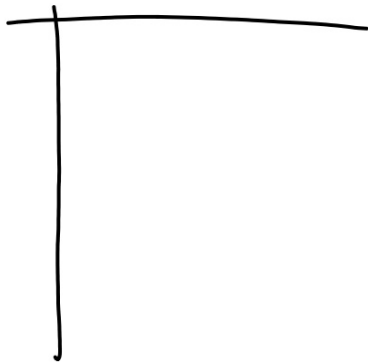Make a frequency polygon to display the data.

n	frog
3	6
4	4
5	10
6	2
7	6
8	6
9	8
10	0
11	1

Animal names

frog

number of letters

6. History The ages of the first 42 presidents when they first took office are listed.

57, 61, 57, 57, 58, 57, 61, 54, 68, 51, 49, 64, 50, 48, 65, 52, 56, 46, 54, 49, 50,
47, 55, 55, 54, 42, 51, 56, 55, 51, 54, 51, 60, 62, 43, 55, 56, 61, 52, 69, 64, 46

a. Find the range of the data.

b. Determine an appropriate class interval.

c. What are the class limits?

d. Find the class marks.

e. Construct a frequency distribution of the data.

f. Draw a histogram of the data.

g. Name the interval or intervals that describe the age of most presidents.

Blood pressure

		L_2	L_3
90 – 110		100	0
110 – 130	|||||	120	6
130 – 150	|||| ||	140	9
150 – 170	||||| ||	160	7
170 – 190	|||||		180	6
190 – 210	||	200	2
=			

Control Group

freq

BP