Mean, Median, and Mode 1

1. Find the mean, median, and mode of these data sets. Use a calculator in (c).
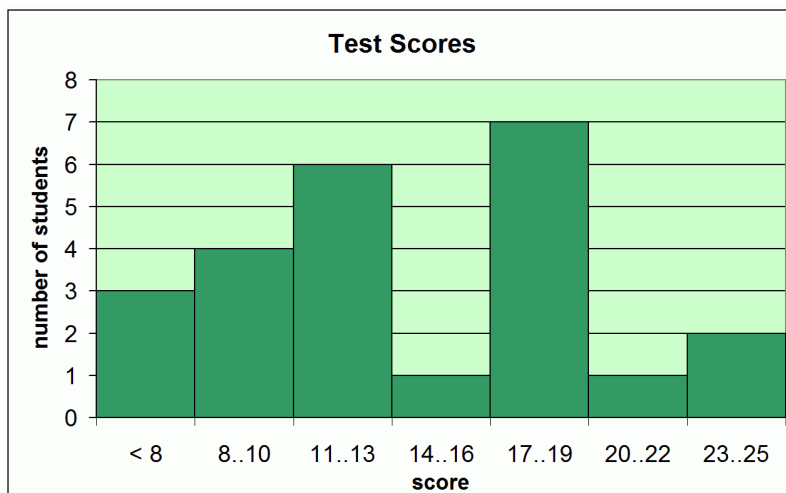
a. 13, 16, 20, 22, 16, 13, 17, 12, 15

b. 201, 204, 196, 193, 210, 220, 220, 220

c. Test scores on a spelling test:
4 5 7 9 9 10 10 11 12 12 12 13 14
17 18 18 18 19 19 19 20 24 25 11

Test Score	Frequency
< 8	3
8..10	4
11..13	6
14..16	1
17..19	7
20..22	1
23..25	2

Test Scores

2. The birth weights of a litter of piglets were:
1,400 g   1,480 g   1,250 g   1,710 g   1,630 g   1,250 g   1,700 g   1,820 g   1,500 g

   a. Find the average weight.

   b. How many grams *below* the average was the lightest piglet?

   c. How many grams *above* the average was the heaviest piglet?

   d. Remove the weights of the two lightest and the one heaviest piglet from the data.
   Now calculate the average again.
   Did the average change?
   If it did, how much?

3. These are the monthly salaries of StarMop Inc. employees:
$1,146 $1,178 $1,189 $1,209 $1,209 $1,210 $1,213 $1,215 $3,400

   a. Find the mean, median, and mode.

   b. Remove the person with the highest salary from the data set.
   Now calculate the mean, median, and mode again.
   How did the mean, median, and mode change?