Math 6 **Name** Key

Chapter 6 Review

Find the range, mean, median, and mode of each data set.

1.

Chief's Football scores	~~12~~	~~45~~	~~23~~	~~11~~	~~6~~	~~21~~	~~10~~	~~32~~	~~15~~	~~27~~
	6	10	11	12	15	21	23	27	32	45

Range: 45 - 6 = 39 Median: 36 ÷ 2 = 18

Mean: 202 ÷ 10 = 20.2 Mode: no mode

The data in the table shows the number of miles each person drove to attend the teacher's conference.

Number of Miles Driven by Each Family Member								
Amber	*Lesa*	*Debbie*	*Eric*	*Kim*	*Amy*	*Jeanne*	*Suzie*	*Nick*
~~35~~	~~50~~	~~45~~	~~38~~	~~47~~	~~35~~	~~52~~	42	40
35	35	38	40	42	45	47	50	52

Mr. K 80

2. Find the mean, median and mode of the miles driven.

Mean: 384 ÷ 9 = $42.\overline{6}$

Median: 42

Mode: 35

3. At the last minute, Mr. Knudsen decided he should drive to the conference. He drove 80 miles to get to the conference. Include his data with the table.

a) How will his data change the mean? Justify your answer.

-1 384 + 80 = 464 ÷ 10 = 46.4 (new mean)

-1 The mean increased by almost 4

b) How will data his change the median? Justify your answer.

-1 42 + 45 = 87 ÷ 2 = 43.5 (new median)

-1 The median increased by 1.5

c) How will his data change the mode? Justify your answer.

-1 new mode 35,

-1 The mode did not change

Number of Summer 2012 Olympic Medals Won by 20 Countries				
6	88	20	38	18
14	13	104	12	82
34	10	65	20	12
20	35	13	44	28

-1 Title

4. Make a Stem-and-leaf plot.

Step 1 Group by 10's

6
10 12 12 13 13 14 18
20 20 20 28
34 35 38
44
65
82 88
104

-1

Stems	Leaves
0	6
1	0 2 2 3 3 4 8
2	0 0 0 8
3	4 5 8
4	4
5	
6	5
7	
8	2 8
9	
10	4

Key: 0|6 = 6

5. Find each value of the data.

Mean: 33.8 (676 ÷ 20)

Median: 20 (20 #'s, 10th + 11th # is middle)

Mode: 20

Which measure would NOT be good to use for describing the data set? Why?

mean; it's higher than over half of the data

Use the data in the table.

Random Numbers...				
35	56	45	57	38
44	32	51	26	49
33	41	37	46	60
50	55	55	31	52

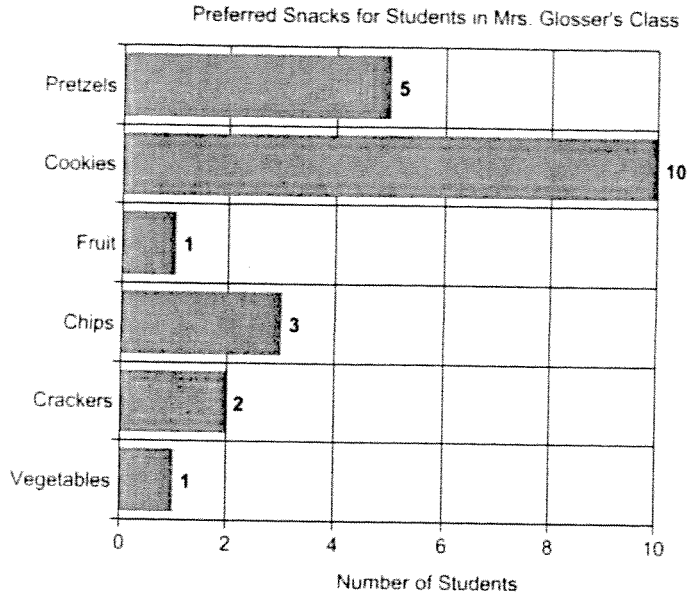
6. Make a frequency table with intervals.

Random Numbers

Interval	26-37	38-49	50-61
Frequency	6	6	8
	++++ 1	++++ 1	++++ 111

1. To find intervals - look at range: 26 to 60
   35 #'s
   36 ÷ 3 = 12
2. Tally each data # under frequency
3. Put #'s in Frequency boxes

Use the bar graph.



7. Which snack was liked the best? Cookies

8. Which snacks were liked by about the same number of students? Fruit, Vegetables

9. How many students said that their favorite snack was pretzels? 5

Use the frequency table.

Amount Spent on Eating at a Restaurant	
Price ($)	Frequency
$0-$4.99	2
$5-$9.99	6
$10-$14.99	10
$15-$19.99	2

10. Make a **histogram** in the box at the right.