

Name Answer Key

Date \_\_\_\_\_

## Lesson #82 – Best Measure of Central Tendency

**Directions:** Study each graph below. Describe the data by finding the mean, median, mode, and range. Analyze the data by determining which measure of central tendency is the best to use to describe the data.

- 1) a) Find the mean, median, and mode of the number of lost textbooks:

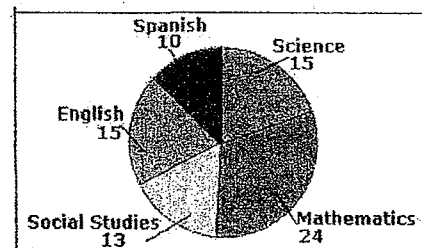
10, 13, 15, 15, 24

$$\text{Mean: } \frac{77}{5} = 15.4$$

Median: 15

Mode: 15

# of Lost Textbooks per Year



- b) Which measure(s) of central tendency is best used to describe the data?

Mean: 15.4

Median: 15

Mode: 15

Median & Mode

- 2) a) Find the mean, median, and mode of the number of songs on students' iPods.

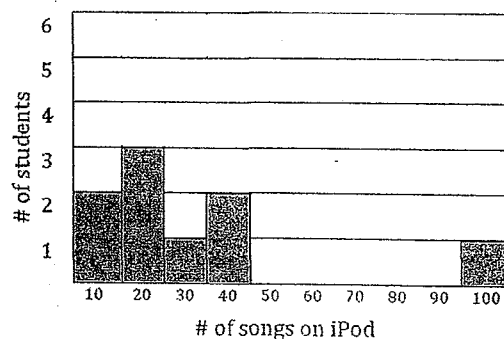
10, 10, 20, 20, 20, 30, 40, 40, 100

$$\text{Mean: } \frac{290}{9} = 32.2$$

Median: 20

Mode: 20

NUMBER OF SONGS ON STUDENTS' IPODS



- b) Which measure(s) of central tendency is best used to describe the data?

Median & Mode

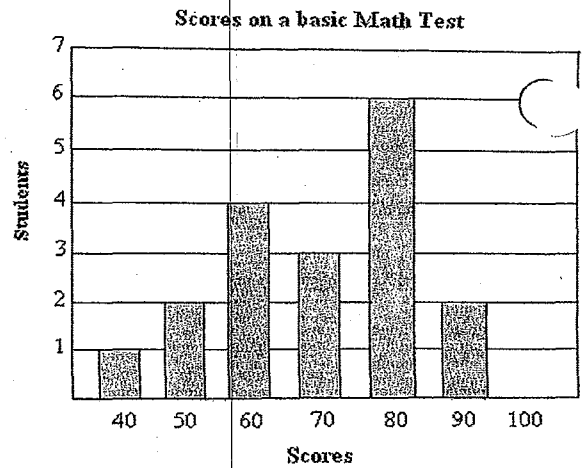
3) a) Find the mean, median, and mode of the scores on a basic math test.

40, 50, 50, 60, 60, 60, 60, 70, 70, 70,  
80, 80, 80, 80, 80, 80, 90, 90

Mean:  $\frac{1250}{18} = 69.\overline{4}$

Median: 70

Mode: 80



b) Which measure(s) of central tendency is best used to describe the data?

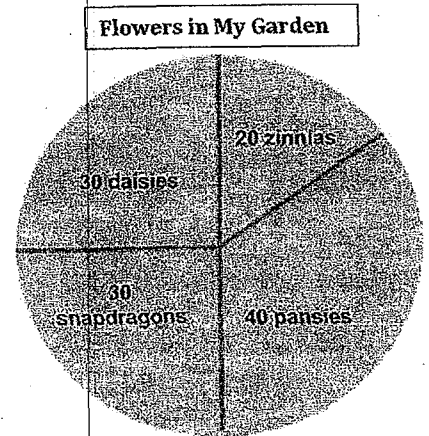
4) a) Find the mean, median, and mode of the flowers in my garden.

20, 30, 30, 40

Mean:  $\frac{120}{4} = 30$

Median = 30

Mode = 30



b) Which measure(s) of central tendency is best used to describe the data?

All

5) a) Find the mean, median, and mode of the weights of dogs at a veterinary clinic.

22, 22, 22, 22, 22, 24, 24, 24, 24,  
25, 25, 28, 28, 28, 28, 59

$$\text{Mean} = \frac{427}{16} = 26.6875$$

Median: 24

Mode: 22

Weights of Dogs at Veterinary Clinic		
Weight (lb)	Tally	Frequency
22		5
28		4
25		2
24		4
59		1

b) Which measure(s) of central tendency is best used to describe the data?

Median

