

Name: _____

Date: _____

1. Match the correct definition to each word.

_____ data set

A. the average (sum of all values divided by the number of values in the data set)

_____ mean

B. a value that is much smaller or larger than most of the other values in a data set

_____ median

C. the middle number in a set of data after the data have been arranged in order

_____ mode

D. the most frequently occurring number in a set of data

_____ range

E. a collection of numbers or values that relate to a particular subject

_____ outlier

F. the difference between the largest data value and the smallest data value

2. For each set of numbers, find the mean, median, mode, and range:

a) 64, 81, 85, 78, 76, 61, 80

mean: _____

mode: _____

median: _____

range: _____

b) 11, 5, 2, 7, 5, 2, 8, 4, 6, 8

mean: _____

mode: _____

median: _____

range: _____

c) 17, 24, 26, 18, 24, 21, 19, 17, 18, 18, 19, 23, 16

mean: _____

mode: _____

median: _____

range: _____

d) 9, 24, 11, 14, 15, 8, 18, 5, 22, 15, 13, 7, 26, 9

mean: _____

mode: _____

median: _____

range: _____

3. Create a set of data in which the median and the mode are the same. SHOW how you know the median and the mode are the same.

4. What is one possible set of four numbers that has a mode of 21 and a median of 13? Demonstrate how you know your answer is correct.

5. The mean of four test scores is 76. If three of the scores are 67, 77, and 87, what is the value of the fourth score?

6. For each situation, circle the best measure of central tendency and explain why you picked it.

- a) Students are surveyed to find out the most popular menu item in the cafeteria. The data table shows the following:

Menu Item	Number of Students
Sushi	27
Grilled Cheese	12
Tacos	19
Pizza	31

MEAN MEDIAN MODE

- b) A teacher determines a student's grade from weekly quizzes. The quizzes are out of 20. The student scored 14, 12.5, 16, 17, and 15.

MEAN MEDIAN MODE

- c) Students recorded the following distances travelled by paper airplanes (in m):
0.4, 4.3, 4.5, 4.8, 5.5, 5.8, 5.9, and 6.1.

MEAN MEDIAN MODE

Chapter 6 Review - Answer Key

1. E
A
C
D
F
B
2. a) mean = 75
median = 78
mode = no mode
range = 24
b) mean = 5.8
median = 5.5
mode = 2, 5, 8
range = 9
c) mean = 20
median = 19
mode = 18
range = 10
d) mean = 14
median = 13.5
mode = 9, 15
range = 21
3. answers will vary
4. $\{n^*, 5, 21, 21\}$ * n = any number < 5
5. 73
6. a) MODE – data represents frequency of choice
b) MEAN – commonly used for test scores
c) MEDIAN – outlier will influence mean