

1) Which statement is true about the data set 3, 4, 5, 6, 7, 7, 10?

[A] mean = mode

[B] mean > mode

[C] mean = median

[D] mean < median

mean = 6
median = 6
mode = 7

2) The weekly salaries of six employees at McDonalds are \$140, \$220, \$90, \$180, \$140, \$200. For these six salaries, find:

(a) the mean \$161.67

(b) the median \$160

(c) the mode \$140

3) The values of 11 houses on Washington St. are shown in the table below.

Value per House	Number of Houses
\$100,000	1
\$175,000	5
\$200,000	4
\$700,000	1

a) Find the mean value of these houses in dollars.

\$225,000

b) Find the median value of these houses in dollars.

\$175,000

4) If the scores 18, 20, 25, 11 and x have a mean of 19. What is the value of x .

$$19 = \frac{18 + 20 + 25 + 11 + x}{5}$$

$$19 = \frac{74 + x}{5}$$

$$95 = 74 + x$$

$$x = 21$$

5) Alex earned scores of 60, 74, 82, 87, 87, and 94 on his first six algebra tests. What is the relationship between the measures of central tendency of these scores?

(1) median < mode < mean

(2) mean < mode < median

(3) mode < median < mean

(4) mean < median < mode

$$\bar{x} = 80.6$$

$$\text{median} = 84.5$$

$$\text{mode} = 87$$

$$\text{mean} < \text{median} < \text{mode}$$

6) Your teacher recorded the math test scores of six students in the table below.

Student	Student Score
Andrew	72
John	80
George	85
Amber	93
Betty	78
Roberto	80

Determine the mean of the student scores, to the *nearest tenth*. Determine the median of the student scores. **Describe** the effect on the mean and the median if your teacher adds 5 bonus points to each of the six students' scores.

as is: mean = $81.\bar{3}$, median = 80

with extra 5 pts: mean = $86.\bar{3}$ median = 85

How do I know which measure of central tendency to use? Discussion

- 7) a. A storeowner kept a tally of the sizes of suits purchased in her store. Which measure of central tendency should the storeowner use to describe the average size suit sold?

mean

- b. A tally was made of the number of times each color of crayon was used by a kindergarten class. Which measure of central tendency should the teacher use to determine which color is the favorite of her class?

mode

- c. The science test grades are posted. The class did very well. All students taking the test scored over 75. Unfortunately, 4 students were absent for the test and the computer listed their scores as 0 until the test is taken. Assuming that no score repeated more times than the 0's, what measure of central tendency would most likely give the best representation of this data?

median (together with range)