

WORKSHEET 3

1- Find the mean of following data: 10, 15, 12, 9, 2, 6.

- A. 12
- B. 9
- C. 54
- D. 10.9

2- What is the median of following data?

5, 7, 10, 3, 8

- A. 7.5
- B. 7
- C. 6
- D. 10

3- If the number of books in a sample of eight boxes is as follows:

11, 8, 2, 2, 7, 7, 2, 5, then the data set is said to be

- A. multimodal
- B. unimodal
- C. bimodal
- D. having no mode

4- Find the midrange for the following data:

7, -5, 2, 10, 15

- A. 2
- B. 5
- C. -5
- D. 10

5- If the mean of 5 values equals 64, then $\sum X = ?$

- A. 12.8
- B. 320
- C. 69
- D. 200

6- The measures of central tendency for the data set 1, 3, 9, 11, 2 are:

- A. Mean=5.2 median=3 mode=no mode
- B. Mean=5.2 median=9 mode=zero
- C. Mean=5.2 median=3 mode=zero
- D. Mean=5.2 median=9 mode=no mode

7- The costs of six toys in a certain store are:

\$15, \$20, \$32, \$1,250, \$27, \$50

Which measure of central tendency should be used?

- A. Mode
- B. Mean
- C. Midrange
- D. Median

8- What is the appropriate measure for the data that represent the marital status (married, divorced, widowed, single)?

- A. Median
- B. Midrange
- C. Mean
- D. Mode

9- When the distribution is positively skewed, the relationship between the mean, median and mode will be:

- A. Mean = Median = Mode
- B. Mean > Median > Mode
- C. Mean < Median < Mode
- D. Cannot be determined

10- If the CVar for an English test is 6.9%, and the CVar for a history test is 4.9%, compare the variations.

- A. The English test is more variable
- B. The history test is more variable
- C. Both tests have the same variation
- D. Cannot be determined

11- If the mean of the number of sales of houses is 56, and the variance is 36, then the coefficient of variation is

- A. 10.7%
- B. 0.643%
- C. 64.3%
- D. 0.107%

12- The mean of a distribution is 80, and the standard deviation is 7. If the distribution is bell-shaped, approximately 99.7% of the data values will fall between

- A. 59 and 94
- B. 59 and 101
- C. 66 and 94
- D. 66 and 101

13- Find the z-score for the value 75 when the mean is 80 and the standard deviation is 5.

A. $z = -2.24$

B. $z = -1$

C. $z = 1$

D. $z = 2.24$

Answer Key:

1. B

2. B

3. B

4. B

5. B

6. A

7. D

8. D

9. B

10. A

11. A

12. B

13. B