



Biostatistics

Archive

Lecture 4

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Biostatistics

1. The following measure(s) do(es) not provide info about the amount of spread in a set of data: a. Mean b. Mode c. Variance d. More than one of the above

Answer: d. More than one of the above

2. One of the following is not a measurement of dispersion:

- a. Median
- b. Coefficient of variation
- c. Variance
- d. None of the above

Answer: a. Median

3. The readings of pulmonary pressures were as follows: (40, -40, 20, 35, -34, 12, 10). The calculated range will be:

- a. 80
- b. -80
- c. 30
- d. -30

Answer: a. 80

4. In a hospital 19 births were occurred during one month, 9 babies weighed over 2.5 kg and same number weighed less than 2.5 kg What value does 2.5 represent? Select one

- a. Range
- b. SD
- c. Median
- d. Mode
- e. 50th percentile
- f. More than one answer is correct

Answer: f. More than one answer is correct
Median is the 50th percentile

5. The body weight of 60 students are arranged in ascending order middle value is? Select one

- a. Arithmetic Mean
- b. Median
- c. 30th percentile
- d. 31st percentile
- e. Mode

Answer: b. Median

6. Standard deviation is the measure of? Select one

- a. Difference between highest and lowest values
- b. Central tendency
- c. Deviation from mean value
- d. Chance
- e. Measure of value with highest frequency

Answer: c. Deviation from mean value

7. What percent of the area of a distribution lies between the first and third Quartiles? Select one

- a. 25
- b. 50
- c. 68
- d. 75

Answer: b. 50

8. On the same test. Sara scored at the 95th percentile, and Dina scored at the 87th. This means that? Select one

- a. Dina is 8% better than Sara
- b. Sara is 8% better than Dina
- c. Sara scored 8 more points than Dina
- d. 8% of those taking the test got scores ranging between Sara's and Dina's
- e. There were only 8 people smarter than both Sara and Dina

Answer: d. 8% of those taking the test got scores ranging between Sara's and Dina's

9. In assessment of Intelligence Quotient of 240 primary school children one child had a score greater than 60 of the total children. What is the percentile rank of this child? Select one

- a. 90th
- b. 75th
- c. 25th
- d. 44th
- e. Can't be calculated

Answer: c. 25th

10. The following data are the weights of under-five children in Kgs: 3, 7, 4, 6, 2, 8, 19. Half (50%) of the values in a distribution are:

- a. Between the mode and the lowest value
- b. Between Q (1) and Q (3)
- c. Included in the range
- d. Between the mode and the highest value
- e. Between the mean and the mode

Answer: B. Between Q (1) and Q (3)

11. In assessment of Intelligence Quotient of 180 primary school children, one child had a score greater than 135 of the total children. The percentile rank for this child is

- a. 25th
- b. 44th
- c. 75th
- d. 90th
- e. Cannot be calculated

Answer: C. 75th

12. In assessment of Intelligence Quotient of 360 primary school children, one child had a score greater than 90 of the total children. The percentile rank of this child is

- a. 90th
- b. 25th
- c. 10th
- d. 5th
- e. 75th

Answer: B. 25th

13. If the birth weight of each of the 15 babies born in a hospital in a day was found to be 2.55. The standard deviation of this sample will be

- a. 0
- b. 0.28
- c. 3.8
- d. 2.8
- e. 1

Answer: A. 0

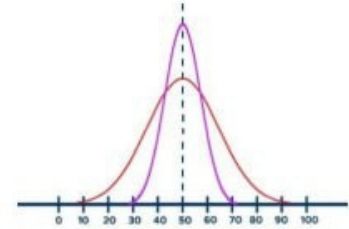
14. All of the following are true about IQR EXCEPT .

- a. It is used with median
- b. It is used with metric variables
- c. It is used with nominal variables
- d. It is not affected by outliers, extremes nor skewness
- e. It has a disadvantage of not conveying all the information in a data set

Answer: C. It is used with nominal variables

15. One of the following measurements can be used to distinguish between the curves:

- a. Mean
- b. Mode
- c. Median
- d. SD
- e. Sample size



Answer: D. SD

16. One of the following statements is correct regarding the following curve:

- a. It is skewed to the right
- b. Mean is less than median
- c. Mean, median and mode are equal
- d. mode is more than mean



Answer: B. Mean is less than median

17. A standardized biostatistics test was carried on two classes (A and B). The marks showed; Class A had a standard deviation of 2.4, while class B had a standard deviation of 1.2 on the same test. What can be said about these two classes? Select one

- a. Class B marks are less heterogenous than class A marks
- b. Class B did less well on the test than class A
- c. Class A marks are more homogenous than class B marks
- d. It is not possible to give an idea
- e. Class A performed twice as well on the test as class B

Answer: A. Class B marks are less heterogenous than class A marks.

18. In assessment of Intelligence Quotient of 180 primary school children, one child had a score greater than 135 of the total children. The percentile rank for this child is:

- a. 25th
- b. 44th
- c. 75th

d. 90th

e. Cannot be calculated

Answer: C. 75th

19. The Measurement of desperation that I can use it with different unit.

a. SD

b. CV

c. SE

d. IQR

Answer: b. CV

20. In assessment of Intelligence Quotient of 180 primary school children, one child had a score greater than 135 of the total children. The percentile rank for this child is:

a. 25th

b. 44th

c. 75th

d. 90th

e. Cannot be calculated

Answer: C. 75th

21. If the frequency is increased at the tails:

A. Increase SD

B. Decrease SD

C. SD constant

D. The no enough information

Answer: B. Kurtosis

Answer: A. Increase SD