Biostatistics

Archive

Lecture 4

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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
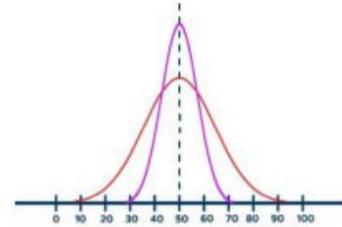
Answer: D. SD

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.