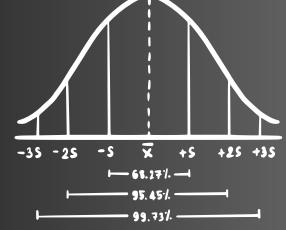


BIOSTATISTICS MID.TERM



Done By: 55.45/l
Ibrahim Sabri Al-Awaje







1. If the size of the sample being used to assess blood pressure at Al-Karak is increased. The width of a 0.95 Cl estimate of the mean of blood pressure for Al-Karak population:
a. Won't change, as there is no relationship between the size of the sample and the Cl.
b. Will become narrower
c. Will become wider
d. Can't decide, the effect on the width cannot be determined from the given information

Answer: B. Will become narrower
2. In Gaussian distribution, one of the following characteristics is incorrect:
a. It is a bell-shaped, continuous curve
b. The tail never touches the base
c. The mean, mode and median values are equal to one
d. It is described by two parameters; the mean and the standard deviation
e. About 95% of the probability under the curve fall within two standard

4. In a group of 100 women the mean weigh is 60 kgs and the standard deviation is

5. The area under the standard normal curve between 1 and 2 SD (from both side) in

Answer: C. The mean, mode and median values are equal to one

Answer: A. 95% of all women weigh between 55 and 65 kgs

Answer: C. Parameters, statistics

answer : B) 27.18%.

deviations around the mean

a. Statistics, measuresb. Statistics, parametersc. Parameters, statisticsd. Measures, statisticse. Parameters, variables

the population is:

A) 13.59% B) 27.18% C) 34.13% D) 47.72%

3. Characteristics of a population are called

__, while those of sample are termed

2.5 kgs. One of the following is correct:

a. 95% of all women weigh between 55 and 65 kgs b. 95% of all women weigh between 57.5 and 62.5 kgs c. 99% of all women weigh between 55 and 65 kgs d. 99% of all women weigh between 57.5 and 62.5 kgs e. 68% of all women weigh between 55 and 65 kgs

6. A 95% confidence interval for a population mean will be	a 99% confidence
interval for the same population means. (Both calculation	s are based on the same set of data)
a. Longer than	
b. Shorter than	
c. As long as	
d. Can't decide, it depends on the particular sets of data	
e. No decision can be given	
e. No decision earlie given	Answer: B. Shorter than
7. Normal distribution curve is determined by:	Allower . D. Shorter than
a. IQR and mean	
b. Mode and SD	
c. Mean and SD	
d. Mode and median	
e. SD and median	i av lan
	<u>Answer: C. Mean and SD</u>
8. A real score= (its standard score *SD) + mean	
8. In a normal distribution curve, the area of more than 2 S	SDs is:
a. 68%	
b. 99%	
c. 95%	
d. 5%	
e. 97%	
	<u>Answer: D. 5%</u>
9. The following data are the weights of under-five children	in Kgs: 3, 7, 4, 6, 2, 8,19. Half (50%) of the
9. The following data are the weights of under-five children values in a distribution are:	in Kgs: 3, 7, 4, 6, 2, 8,19. Half (50%) of the
	n 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	n 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)	n 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	n 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	n in Kgs: 3, 7, 4, 6, 2, 8,19. Half (50%) of the
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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	in Kgs: 3, 7, 4, 6, 2, 8,19. Half (50%) of the <u>Answer: B. Between Q (1) and Q (3)</u>
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 10. The mode is:	
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 10. The mode is: a. The values the occur most often in a set of data	Answer: B. Between Q (1) and Q (3).
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 10. The mode is: a. The values the occur most often in a set of data b. The difference between the largest and the smallest value	Answer: B. Between Q (1) and Q (3) ue of observations
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12. In a group of 12 scores, the largest score has increased by 36 points. The such a change on the mean will be: a. Nothing, it will remain unchanged. b. There is no way of knowing exactly how many points the mean will increase c. It will increase by 36 points. d. It will increase by 12 points. e. It will increase by 3 points. Answer: 1 13. Type of data in biochemistry (never, always, sometimes) is considered:	
a. Ordinal. b. Nominal c. Continuous d. Discrete	
14. All of the following about discrete quantitative values are true EXCEPT: a. Mathematical operations can be applied to it b. Its values do not have to be integers c. It possesses interval data d. Heart rate is an example of this data e. It is obtained by counting	Answer: A. Ordinal
	s do not have to be integers
d. Discrete data 16. A crowd of 20 people was sorted into groups based on their ABO blood s Such groups containvariables. a. Continuous b. Discrete	Answer: d. Discrete data subgroups.
c. Nominal d. Ordinal	<u>Answer: c. Nominal</u>
17. The number of your eyes is considered a(an):a. Constantb. Nominal variablec. Ordinal variabled. Metric variable	
18. Standard deviation of the sampling distribution of averages (means) is: a. Standard error b. Coefficient of variation c. Range d. Sampling error	Answer: a. Constant
e. Standard deviation	Answer: a. Standard error

19. The area under the curve between 1 and 2 s.d from both sides is: A. 47.7 B.34.1 C.27.2 D.68	
20. 300 student take an exam, the mean 76 and standard deviation 8 Find the number of students who scored between 70 and 82 a. 164 b. 120 c. 50 d. 88 e. 75	Answer: C.27.2
21. The area under the curve between plus 2 and minus 1 s.d: a. 21 b. 82 b. 99 c. 68	<u>Answer: a. 164</u>
22. In assessment of Intelligence Quotient of 180 primary school children, one child 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	Answe: b. 82 d had a score
23. For the following set of data: 1, 2, 2, 2, 3, 4, 6, 6, 7. The mean, mode and median will be, respectively: a. 3.67, 2 and 3 b. 3.67, 3 and 2 c. 4.67, 2 and 3.5 d. 4, 2 and 3.5	Answer: C. 75th
24. 1000 students in a school district took a standardized social studies test that is 1 and has a mean of 350 and SD is 15 Sara score's is 360 How many students above Khalaf? a. 22 b. 76 c. 85	nswer: A. 3.67, 2 and 3 normally distributed
d. no enough information Answer: d. no	enough information

25. The area under the curve between zero and plus 2: a. 47 b. 68 c. 99 d. 95	
26. Median of 6 scores is 21, What changes occur when the highest value increases 3? A.21 B.21.5	<u>Answer: a. 47</u>
C. 36 D. can't be calculated	A
27. For students the mean is 80 and SD is 10 What is the standard score for 65? A) 1.5. B) -1.5	Answer: A.21
C) 2.0. D) -0.5 Answer: B) -1.5 28. The percent of area of normal curve between z=-0.44 and the mean is? a. 17%	
b. 25% c. 95% d. 68%	Answer: a. 17%
29. The sample size is 100 teachers and the mean systolic blood pressure is110 mmHg,the S.E equals to? A.10 B.0.1 C.100	
D.1 E.there is no enough information	
30. The sample size is 100 teachers and the mean systolic blood pressure is110 mmHg,the percentage that below 115? A) 50.00% B) 84.13% C) 69.15% D) 30.85%	Answer: D.1 e S.D is 10, the
Ans 31. The sample size is 100 teachers and the mean systolic blood pressure is110 mmHg,the rank of 100? A) 5.65th percentile	swer: C) 69.15% S.D is 10, the
B) 15.87th percentile C) 25th percentile D) 50th percentile Answer: B) 15.8	87th percentile

32 A distribution with a tail that goes to the right is called: a. Positively skewed b. Unimodal c. Negatively skewed d. None of the above	Ancwar: A Daoitivaly ekawad
33. Sales of a company over the past ten years is best represented by: a. line graph b. bar chart c. histogram d. pie chart	Answer: A. Positively skewed Answer: A. line graph
34. The Measurement of desperation that I can use it with different units: a. SD b. CV c. SE d. IQR	
35. NDC Ditermined by: a. SD and mean b. SD and median c. CV and mean d. Mode and mean	<u>Answer: b. CV</u>
36. If we increase the sample size, occurs: A. Decrease Cl B. Increase Cl C. Cl constant D. Increase SE	<u>Answer: a. SD and mean</u>
37. The state or quality of fatness of peakedness of a distribution called? So a Multi-modal. B.Kurtosis. C.Symmetrical. D. Positivly Skewed. e. Negativly Skewed	<u>Answer: A. Decrease CI</u> elect one:
38. If the frequency is increased at the tails: A. Increase SD B. Decrease SD C. SD constant	<u>Answer: B.Kurtosis</u>
D. The no enough information	<u>Answer: A. Increase SD</u>

- 39. Affect standard error?
- A. Directly by variance
- B. Indirectly by variance
- C. Directly by sample size
- D. Not affected by sample size
- E. Directly affected by mean

Answer: A. Directly by variance

- 40. Which of the following statements about symmetrical normal distributions is CORRECT?
- A. Standard deviation equals 1
- B. Mean median mode are in the same location on the graph
- C. Mean is equal to 0
- D. Symmetrical distributions have equation & graph
- E. All symmetrical distributions must be standard

Answer: B. Mean median mode are in the same location on the graph

- 41. The advantage of arithmetic mean?
- A) It is less affected by outliers compared to other measures.
- B) It is calculated using only the median values.
- C) It is the most commonly used measure and utilizes all data points in the dataset.
- D) It is the only measure of central tendency that can be used with non-numeric data.

Answer: C) It is the most commonly used measure and utilizes all data points in the dataset.

- 42. Standard deviation of the sampling diversion of averages called?
- A) Variance
- B) Standard error of the mean
- C) Population standard deviation
- D) Sampling variance

<u>Answer: B) Standard error of the mean</u>

- 43. You are preparing a report to present to the public health council on the declining rate of tuberculosis in year state in both men and women over the last 10 years, which type of graphs would best illustrate the data?
- A. Bar chart
- B. Pie chart
- C. Line graph
- D. Frequency polygon

Answer: C. Line graph

- 44. Is used for drawing conclusion from the data which will influence subsequent decision?
- A) Descriptive statistics
- B) Analytic statistics
- C) Predictive statistics
- D) Exploratory statistics

<u>Answer: B) Analytic statistics</u>