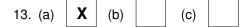
R Exams

Statistics Exam 2019-03-14

Exam ID 00003

Name:								
Student ID:								
Signature:								
1. (a)		(b)	X	(c)				
2. (a)	X	(b)		(c)				
3. (a)	X	(b)		(c)				
4. (a)		(b)		(c) X				
5. (a)		(b)		(c) X				
6. (a)		(b)		(c) X				
7. (a)		(b)		(c) X				
8. (a)	X	(b)		(c)				
9. (a)		(b)	X	(c)				
10. (a)		(b)	X	(c)				
11. (a)		(b)	X	(c)				



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1. Problem

A characteristic of interest is called a parameter when it refers to the characteristic in a sample.

- (a) Not enough information
- (b) FALSE
- (c) TRUE

Solution

- (a) False.
- (b) True.
- (c) False.

2. Problem

The mean of quantitative variables is often represented with x with a bar over it for the population parameter.

- (a) FALSE
- (b) TRUE
- (c) Not enough information

Solution

- (a) True.
- (b) False.
- (c) False.

3. Problem

What is the statistical meaning of population?

- (a) All of the members of a group you're interested in.
- (b) There's no such concept in statistics.
- (c) It's always all of the people in an entire country.

Solution

- (a) True.
- (b) False.
- (c) False.

4. Problem

The standard deviation of quantitative variables is often represented with a Greek sigma (σ) for the sample statistic.

- (a) TRUE
- (b) Not enough information
- (c) FALSE

Solution

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(a) False.(b) False.	
(c) True.	
5. Problem Population parameters are usually represented using Roman letters (normal AE	BCs).
(a) TRUE(b) Not enough information(c) FALSE	
Solution	
(a) False.(b) False.(c) True.	
6. Problem If data are normally distributed, the mean and the medial will not be equal.	
(a) TRUE(b) Not enough information(c) FALSE	
Solution	
(a) False.(b) False.(c) True.	
7. Problem Normally distributed data are semetrical.	
(a) FALSE(b) Not enough information(c) TRUE	
Solution	
(a) False.(b) False.(c) True.	
8. Problem The mean is a good measure of central tendency when the data are normally d	istributed.
(a) TRUE	

(b) Not enough information

(c) FALSE

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Solution

- (a) True.
- (b) False.
- (c) False.

9. Problem

The value for the mean is always an actual value in the data set.

- (a) Not enough information
- (b) FALSE
- (c) TRUE

Solution

- (a) False.
- (b) True.
- (c) False.

10. Problem

The mode is always an actual value in the data set.

- (a) FALSE
- (b) TRUE
- (c) Not enough information

Solution

- (a) False.
- (b) True.
- (c) False.

11. Problem

Variation is not important in statistics.

- (a) TRUE
- (b) FALSE
- (c) Not enough information

Solution

- (a) False.
- (b) True.
- (c) False.

12. Problem

Variance is in squared units.

- (a) FALSE
- (b) Not enough information

Given the following data set [1,2,3,4,5], what is the third quartile?

(a) False.(b) False.(c) True.

15. Problem

(a) 1.58(b) 2.5(c) 4(d) 3(e) 2Solution

(a) False.(b) False.(c) True.(d) False.

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(b) 5 (c) 4 (d) 7 (e) 8 7

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	(f) 3.16 (g) 3	
	Solution	
19.	 (a) False. (b) False. (c) True. (d) False. (e) False. (f) False. (g) False. Problem	
	A data point has the value of 7.5 and the mean of the data set is 10. What is the deviation score?	n
	(a) -3 (b) 7 (c) -2.5 (d) 3	
	Solution	
	(a) False.(b) False.(c) True.(d) False.	
20.	Problem Sometimes the scale of a plot can make differences look larger or smaller than they real are.	ly
	(a) FALSE(b) Not enough information(c) TRUE	
	Solution	
	(a) False.(b) False.(c) True.	

21. Problem

Boxplots are useful for seeing outliers.

- (a) Not enough information
- (b) FALSE
- (c) TRUE

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Solution

- (a) False.
- (b) False.
- (c) True.

22. Problem

Histograms are usefule for seeing how data are distributed.

- (a) Not enough information
- (b) TRUE
- (c) FALSE

Solution

- (a) False.
- (b) True.
- (c) False.

23. Problem

img: "hist_norm.jpeg" Select the statements that are true.

- (a) The data are right skewed.
- (b) The data are leptokurtic.
- (c) The data are left skewed.
- (d) The data are normally distributed.
- (e) The data are platykurtic.

Solution

- (a) False.
- (b) False.
- (c) False.
- (d) True.
- (e) False.

24. Problem

img:"box_plat.jpeg" Select the statements that are true.

- (a) There are no outliers.
- (b) There are outliers with large values.
- (c) The data are left skewed.
- (d) There are outliers with small values.
- (e) The data are symetrically distributed.
- (f) The data are right skewed.

Solution

- (a) True.
- (b) False.
- (c) False.
- (d) False.
- (e) True.
- (f) False.