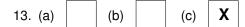
R Exams

Statistics Exam 2019-03-14

12. (a) (b) **X** (c)

Exam ID 00002

Name:							
Student ID:							
Signature:							
1. (a)		(b)	X	(c)			
2. (a)		(b)	X	(c)			
3. (a)	X	(b)		(c)			
4. (a)		(b)		(c)	X		
5. (a)	X	(b)		(c)			
6. (a)		(b)		(c)	X		
7. (a)	X	(b)		(c)			
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) Not enough information
- (b) FALSE
- (c) TRUE

Solution

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

3. Problem

What is the statistical meaning of population?

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

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 ABCs	s).
(a) FALSE	
(b) Not enough information	
(c) TRUE	
Solution	
(a) True.	
(b) False.	
(c) False.	
 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) TRUE	
(b) FALSE	
(c) Not enough information	
Solution	
(a) Tour	
(a) True. (b) False.	
(c) False.	
8. Problem	
The mean is a good measure of central tendency when the data are normally distr	ibuted.
(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) TRUE
- (b) FALSE
- (c) Not enough information

Solution

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

10. Problem

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

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

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) Not enough information
- (b) TRUE

A small standard deviation means the mean represents the data well.

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

(a) TRUE(b) FALSE

Solution

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

15. Problem

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

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

(c) Not enough information

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(b) 4 (c) 3 (d) 3.16 (e) 10 7

Statistics Exam: 00002 8 (f) 8 (g) 5 Solution (a) False. (b) True. (c) False. (d) False. (e) False. (f) False. (g) False. 19. Problem A data point has the value of 7.5 and the mean of the data set is 10. What is the deviation score? (a) -3(b) -2.5 (c) 3 (d) 7 **Solution** (a) False. (b) True. (c) False. (d) False. 20. Problem Sometimes the scale of a plot can make differences look larger or smaller than they really are. (a) FALSE (b) Not enough information (c) TRUE **Solution** (a) False. (b) False.

(c) True.

(a) FALSE(b) TRUE

Boxplots are useful for seeing outliers.

(c) Not enough information

21. Problem

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Solution

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

22. Problem

Histograms are usefule for seeing how data are distributed.

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

Solution

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

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 platykurtic.
- (d) The data are normally distributed.
- (e) The data are left skewed.

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

Solution

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