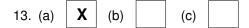
R Exams

Statistics Exam 2019-03-14

Exam ID 00001

Name:				
Student ID:				
Signature:				
d (-)	v	(l-)		(3)
1. (a)	X	(b)		(c)
2. (a)	X	(b)		(c)
3. (a)		(b)	X	(c)
4. (a)		(b)	X	(c)
5. (a)		(b)	X	(c)
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)		(c) X



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

15. (a) **X** (b) (c) (d) (e)

16. (a) (b) **X** (c) (d) (e)

17. (a) (b) (c) (d) (e) **X** (f) (g)

18. (a) (b) (c) (d) (e) **X** (f) (g)

19. (a) (b) **X** (c) (d)

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

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

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

23. (a) **X** (b) (c) (d) (e)

24. (a) (b) (c) **X** (d) (e) (f) **X**

Statistics Exam: 00001

1. Problem

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

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

Solution

- (a) True.
- (b) False.
- (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) Not enough information
- (c) TRUE

Solution

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

3. Problem

What is the statistical meaning of population?

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

Solution

- (a) False.
- (b) True.
- (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) FALSE
- (c) Not enough information

Solution

Statistics Exam: 00001 4

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

5. Problem

Population parameters are usually represented using Roman letters (normal ABCs).

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

Solution

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

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) Not enough information
- (b) FALSE
- (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 distributed.

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

Statistics Exam: 00001 5

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

Solution

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

11. Problem

Variation is not important in statistics.

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

Solution

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

12. Problem

Variance is in squared units.

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

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

(c) Not enough information

Solution

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

15. Problem

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

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

6

(b) 5(c) 3.16(d) 7(e) 4

7

Statistics Exam: 00001 8 (f) 3 (g) 8 Solution (a) False. (b) False. (c) False. (d) False. (e) True. (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) Not enough information (b) FALSE (c) TRUE **Solution** (a) False. (b) False.

(a) TRUE

(c) True.

21. Problem

(b) FALSE

(c) Not enough information

Boxplots are useful for seeing outliers.

Statistics Exam: 00001

Solution

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

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

Solution

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

24. Problem

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

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

Solution

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