

## Unit 2 - Week 0

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## Assignment 0

The due date for submitting this assignment has passed.  
As per our records you have not submitted this assignment.

**Due on 2020-01-27, 23:59 IST.**

1) One magician is showing a magic on cards. He draws one card randomly drawn from a pack of 52 cards. What is the probability that the card drawn is not a face card (Jack, Queen or King)? 1 point

- a.  $\frac{10}{13}$   
b.  $\frac{12}{13}$   
c.  $\frac{9}{13}$   
d.  $\frac{11}{13}$

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a.

2) Bag I contains 6 white and 4 black balls while another Bag II contains 3 white and 4 black balls. One ball is drawn at random from one of the bags and it is found to be black. What is the probability that it was drawn from Bag II? 1 point

- a. 0.404  
b. 0.583  
c. 0.588  
d. 0.644

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c.

3) Osmania University offers the science course of intermediate students. The course has physics, chemistry as compulsory subjects whereas mathematics and biology as optional subjects. One student has to take at least three subjects. Suppose 32% fail in chemistry, 27% fail in physics, and 12% fail in both. A student is selected at random. What is the probability that student selected passed at least one of the courses? 1 point

- a. 0.22  
b. 0.34  
c. 0.45  
d. None of these

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

d.

4) A pack contains 4 blue, 2 red and 3 black pens. If 2 pens are drawn at random from the pack. NOT replaced and then another pen is drawn. What is the probability of drawing 2 blue pens and 1 black pen? 1 point

- a.  $\frac{1}{14}$   
b.  $\frac{2}{14}$   
c.  $\frac{3}{14}$   
d.  $\frac{4}{14}$

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a.

5) What is the condition for mutually exclusive events? 1 point

- a.  $P(A \cup B) = P(A) + P(B) - P(A \cap B)$   
b.  $P(A \cup B) = P(A) + P(B)$   
c.  $P(A \cap B) = P(A).P(B)$   
d.  $P(A \cup B) = P(A) - P(B)$

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b.

6) Which of the following tells how far a data set is spread out? 1 point

- a. Variance  
b. Interquartile range  
c. Range  
d. Coefficient of variation

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a.

7) The mean of a distribution is 50 and the standard deviation is 12. What is the value of the coefficient of variation? 1 point

- a. 20%  
b. 24%  
c. 12%  
d. 36%

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b.

8) What is the variance of the following sample data set. 1 point

12, 13, 24, 24, 25, 26, 34, 35, 38, 45, 46, 52, 53, 78, 78, 89

- a. 30  
b. 6.77  
c. 12.56  
d. 540.667

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

d.

9) Which of the following statement(s) are correct? 1 point

- I. There is no difference between mean and median.  
II. The mean of a set of numerical data is the average of that data set.  
III. The mode of a numerical data set is that value which occurs most often.  
a. Only statement II is correct.  
b. Statement I and II are correct.  
c. Statement III and II are correct.  
d. All the statements are correct.

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

c.

10) What is the median of the following data set? 1 point

11, 15, 14, 18, 24, 13, 16, 18, 17, 19, 20, 14, 13, 18, 17, 16, 18, 15, 22, 20, 17, 18, 23, 11, 12

- a. 17  
b. 18  
c. 13  
d. 16.76

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a.

11) What is the mode of the data set provided in the question no. 10? 1 point

- a. 17  
b. 18  
c. 16  
d. 16.76

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b.

12) What is the mean of the data set provided in the question no. 10? 1 point

- a. 17  
b. 18  
c. 16  
d. 16.76

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

d.

13) Which of these measures are used to analyze the central tendency of data? 1 point

- a. Mean and Normal Distribution  
b. Mean, Median and Mode  
c. Mode, Alpha and Range  
d. Standard Deviation, Range and Mean

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b.

14) If a positively skewed distribution has a median of 70, which of the following statement is true? 1 point

- a. Mean is greater than 70  
b. Mean is less than 70  
c. Mode is less than 70  
d. Mode is greater than 70

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

a.

c.

15) Standard deviation can be negative. 1 point

- a. True  
b. False  
c. Cannot say  
d. None of these

- a.  
 b.  
 c.  
 d.

No, the answer is incorrect.  
Score: 0

Accepted Answers:

b.