

Course outline

How does an NPTEL online course work?

Week 0 :

Quiz: Week 0:Assignment 0

Week 01

Week 02

Week 03

Week 04

Week 05 :

Week 06

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Course Material

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Assignment Solution

Week 0:Assignment 0

The due date for submitting this assignment has passed.

Due on 2021-07-26, 23:59 IST.

As per our records you have not submitted this assignment.

- 1) Calculate the mean, median and mode using this dataset: 4; 5; 6; 6; 6; 7; 7; 7; 7; 8
- a) 4, 5, 6
- b) 6.3, 6.5, 7
- c) 5.2, 5.4, 6
- d) 6.4, 6.9, 8

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

- 2) From the following dataset: 6; 7; 7; 7; 7; 8; 8; 8; 9; 10
- Establish the relationship between mean, median and mode
- a) Median > Mean > Mode
- b) Mean > Median > Mode
- c) Mode > Mean > Median
- d) Median > Mode > Mean

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

- 3) Which of these is/are example/s of categorical variable (mark all correct answer)
- a. Different months in a year
- b. Temperature in different months
- c. height, measured in inches, for each student in a class
- d. Education Degree/ Certification Programs

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

d

- 4) Which of the statements are CORRECT for Bar charts and histogram?
- a. Bar charts shows numbers but histograms show percentages
- b. Bar charts are for discrete data, histogram is for continuous data
- c. Histogram has no gaps between the bars
- d. Bar charts have no gaps between the bars

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

b

c

- 5) The algebraic sum of deviations from mean is:
- a. Minimum
- b. Maximum
- c. Undefined
- d. Zero

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

- 6) If the scores on a test have a mean of 28 and a standard deviation of 4, what is the z-score for a score of 20?
- a. 2
- b. 12
- c. -2
- d. 24

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

c

- 7) The probability of randomly drawing an ace from a well-shuffled deck of cards is equal to the ratio
- a. 4/52
- b. 13/52
- c. 1/52
- d. 1/4

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

- 8) X is a random variable that takes values of 1, 0 and -1 with respective probabilities of 0.3, 0.5 and 0.2. The expected value of X is:
- a. 0.52
- b. 0.34
- c. 0.23
- d. 0.10

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

d

- 9) In Statistics we draw inference from -
- a. sample to population
- b. population to sample
- c. either of these
- d. none of these

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a

- 10) Which of the following statements are TRUE/FALSE?
- A. We prefer a small standard deviation for a distribution. However, that will lead to a narrow confidence interval.
- B. We prefer a large number of observations for a distribution. However, that will lead to a narrow confidence interval.
- a) Both TRUE
- b) A True, B False
- c) B True, A False
- d) Both FALSE

- ☐ a
- ☐ b
- ☐ c
- ☐ d

No, the answer is incorrect.

Score: 0

Accepted Answers:

a