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Required Quiz 3.1: Week 3 Quiz

Due Oct 3 at 11:59pm   **Points** 20   **Questions** 20
Available Sep 20 at 12am - Oct 3 at 11:59pm   **Time Limit** 30 Minutes

Instructions

Learning Outcome Addressed

1. Organise, manage and present data.

It is now time to assess your understanding of the concepts covered so far in this module.

Quiz Instructions

- The time limit for this quiz is 30 mins. Kindly complete and submit this quiz within this time.
- You have only one attempt to answer the quiz.
- All quiz attempts must be attempted by **Friday, October 3, 2025, by 11:59 PM IST.**
- The correct answers will be displayed after quiz submissions deadline.

> *Note: This is a graded quiz and counts towards programme completion.*

This quiz was locked Oct 3 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	17 minutes	15 out of 20

Score for this quiz: **15** out of 20
Submitted Oct 3 at 9:09pm
This attempt took 17 minutes.

Question 1	1 / 1 pts

When calculating the standard deviation for a sample, what is the denominator used?

- ○ n
- ○ $n + 1$
- ○ n^2
- ● $n - 1$ **Correct!**

> That's correct!

Question 2	1 / 1 pts

Standard deviation is a measure that:

Submission Details:

Time:	17 minutes
Current Score:	15 out of 20
Kept Score:	15 out of 20

○ Calculates median values

○ Predicts future trends

Correct!

◉ Indicates data dispersion from the mean

○ Shows the average of data

That's correct!

Question 3

1 / 1 pts

Which symbol represents standard deviation when calculated from population data?

○ s

Correct!

◉ σ

○ n

○ μ

That's correct!

Question 4

1 / 1 pts

In the formula for standard deviation, why is the deviation squared?

○ To find the mean

○ To emphasize large deviations

○ To simplify calculations

Correct!

◉ To avoid negative values

That's correct!

Question 5

0 / 1 pts

The weekly production of a company over 10 weeks is

12   14   15   13   16   15   14   18   13   15

Calculate the standard deviation. Does the variation exceed 2 items?

You Answered

◉ Standard deviation = 1.25, variation is acceptable

○ Standard deviation = 1.50, variation exceeds 2 items

Correct Answer

○ Standard deviation = 1.13. Variation is acceptable

○ Standard deviation = 2.00, variation exceeds two items

That's incorrect! Revisit the videos for this week.

Question 6

1 / 1 pts

What does the product $F(X - \bar{x})^2$ represent in the frequency distribution table?

- ○ Total count of data points
- ○ Mean of the dataset

Correct!
- ● Sum of squared deviations
- ○ Sum of frequencies

> That's correct!

Question 7

0 / 1 pts

Which measure of central tendency is most affected by extreme values?

Correct Answer
- ○ Mean

You Answered
- ● Median
- ○ Range
- ○ Mode

> That's incorrect! Revisit the videos for this week.

Question 8

0 / 1 pts

Why does $n-1$ instead of n divide the sample standard deviation?

You Answered
- ● To match the population standard deviation

Correct Answer
- ○ To correct for bias in the estimation of the population variance
- ○ To simplify calculations
- ○ To increase the standard deviation

> That's incorrect! Revisit the videos for this week.

Question 9

1 / 1 pts

What is the unit of measurement for variance?

Correct!
- ● The square of the unit of the original data
- ○ Same as the original data
- ○ No unit
- ○ The square root of the original data

That's correct!

Question 10
1 / 1 pts

What does a high standard deviation indicate about a dataset?

- ○ Equal data points

- ○ Low variability

Correct!

- ⦿ High variability

- ○ Low mean

That's correct!

Question 11
1 / 1 pts

What does the coefficient of variation measure?

Correct!

- ⦿ The standard deviation as a percentage of the mean

- ○ The range of data

- ○ The spread of data

- ○ The average deviation from the mean

That's correct!

Question 12
1 / 1 pts

When calculating the standard deviation for sample data, which formula is used?

- ○ $\sigma = \sqrt{\frac{\sum{(x - \bar{x})^2}}{N-1}}$

- ○ $s = \sqrt{\frac{\sum{(x - \bar{x})^2}}{n}}$

- ○ $\sigma = \sqrt{\frac{\sum{(x - \mu)^2}}{N}}$

Correct!

- ⦿ $s = \sqrt{\frac{\sum{(x - \bar{x})^2}}{n-1}}$

That's correct!

Question 13
1 / 1 pts

What is the primary purpose of variance in statistics?

- ○ To determine the mean of a dataset

Correct!

- ⦿ To describe the spread or dispersion of data points around the mean

○ To predict future data points

○ To measure the central tendency of a dataset

That's correct!

Question 14   1 / 1 pts

What is the mean of a frequency distribution if the sum of fx is 59000 and the total frequency is 100?

○ 550

Correct! ● 590

○ 600

○ 500

That's correct!

Question 15   0 / 1 pts

For which scenario is the range most appropriate to use as a measure of dispersion?

○ When comparing the spread of data in two different datasets

Correct Answer ○ When you need a simple measure of variability

○ When data is highly skewed

You Answered ● When calculating the mean

That's incorrect! Revisit the videos for this week.

Question 16   0 / 1 pts

In a frequency table, how do you calculate the sum of squared deviations for the standard deviation?

○ Add the frequencies

You Answered ● Calculate the mean of the squared deviations

Correct Answer ○

Multiply each squared deviation by its frequency and sum the results

○ Divide the total count by squared deviations

That's incorrect! Revisit the videos for this week.

Question 17   1 / 1 pts

What does a high coefficient of variation indicate about a dataset?

○ Low standard deviation

○ Mean is close to zero

Correct! ◉ High variability relative to the mean

○ Low variability relative to the mean

That's correct!

Question 18

1 / 1 pts

What is the coefficient of variation if the mean is 50 and the standard deviation is 5?

○ 50%

○ 5%

○ 25%

Correct! ◉ 10%

That's correct!

Question 19

1 / 1 pts

What does a high standard deviation indicate about a data set?

○ Data points are close to the mean

Correct! ◉ Data points are spread out over a wide range

○ Data points are skewed

○ Data points are inaccurate

That's correct!

Question 20

1 / 1 pts

The following is a frequency distribution of the number of calls received at a call centre during different hours of the day:

Calls (x)	Frequency (f)
5	10
10	15
15	20
20	25

25	10

Calculate the standard deviation of calls received.

- ○ 5.63
- ○ 6.22
- ● 5.80

Correct!

- ○ 4.97

That's correct!

Quiz Score: **15** out of 20

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