

# STANDARD DEVIATION FORMULA

A standard deviation can be considered a measure of data dispersion around its mean. A small or low standard deviation will indicate that the data is clustered around the mean. In contrast, a high or large standard deviation indicates that the data is more spread across the mean. The standard deviation is a very important concept in determining the data points and sets, which is the primary use day in determining unit economics.

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**Q1: What percentage of data points falls within one standard deviation from the mean in a dataset with normally distributed values?**

- A: 68%
  - B: 95%
  - C: 99.7%
  - D: 50%
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**Q2: What is the standard deviation in a dataset with values of 1, 2, 3, 4, and 5?**

- A: 1
  - B: 0.5
  - C: 1.5
  - D: 2
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**Q3: A high standard deviation indicates:**

- A: High data consistency
  - B: Low data dispersion
  - C: High data variability
  - D: Low data accuracy
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**Q4: There are 39 plants in the garden. A few plants were selected randomly and their heights in cm were recorded as follows: 51, 38, 79, 46, 57. Calculate the standard deviation of their heights.**

- A: 17.50
  - B: 15.50
  - C: 26.75
  - D: 33.56
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**Q5: Identify the value among the set that is not a standard deviation possibility**

- A: 1
  - B: 1.5
  - C: 0
  - D: -1
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**Q6: Identify the Two Standard Deviation Formulas to Calculate the Mean Standard Deviation.**

- A: Population Standard Deviation
  - B: Sample Standard Deviation
  - C: Both A and B
  - D: None of these
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**Q7: In a class of 50, 4 students were selected at random and their total marks in the final assessments were recorded, which are 812, 836, 982, and 769. Find the variance and standard deviation of their marks.**

- A: 8678.1 and 88.9
  - B: 8541.58 and 92.4
  - C: 6657.22 and 65.87
  - D: 6567.55 and 23.22
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**Q8: What is the primary feature used in the sample standard distribution deviation formula?**

- A: Median
  - B: Mode
  - C: Square
  - D: Mean
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**Q9: Why cannot the Standard Deviation can never be in the form of a Negative value?**

- A: Square units
  - B: Standard distribution
  - C: Standard deviation
  - D: Positive mean values
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## Answers

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**Q1:** A - 68%

**Q2:** D - 2

**Q3:** C - High data variability

**Q4:** B - 15.50

**Q5:** D - -1

**Q6:** C - Both A and B

**Q7:** B - 8541.58 and 92.4

**Q8:** D - Mean

**Q9:** A - Square units