

# ANOVA FORMULA

ANOVA is the analysis of variance. It is an analysis tool you use during statistics, which helps you to split and observe the aggregates variability that is found inside data, which you can set into two parts. It is a statistical test that you can use to analyze the major difference between the mean of these two parts.

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**Q1: ANOVA is used to:**

- A: Compare two means
  - B: Compare three or more means
  - C: Compare medians
  - D: Compare variances
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**Q2: What is the range of possible values for the F-statistic in ANOVA?**

- A: 0 to 1
  - B: -1 to 1
  - C: 0 to positive infinity
  - D:  $-\infty$  to  $\infty$
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**Q3: Which type of ANOVA is appropriate when there is only one independent variable with more than two levels?**

- A: One-Way ANOVA
  - B: Two-Way ANOVA
  - C: Repeated Measures ANOVA
  - D: Multivariate ANOVA
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**Q4: What is the Formula for calculating ANOVA?**

- A:  $F = MSB + MSE$
  - B:  $F = MSB - MSE$
  - C:  $F = MSB * MSE$
  - D:  $F = MSB/MSE$
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**Q5: What are the testing methods of ANOVA?**

- A: Null Hypothesis
  - B: Alternative Hypothesis
  - C: Significance Level
  - D: All of These
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**Q6: What is the Full form of ANOVA?**

- A: Analysis of Variability
  - B: Analysis of Variance
  - C: Analysis of Vertical Axis
  - D: Analyzing of Vertices
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**Q7: For One-way ANOVA, which Statistical test you will Use?**

- A: T
  - B: Z
  - C: F
  - D:  $X^2$
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**Q8: What does ANOVA calculate in the Regression Line?**

- A: F-ratio
  - B: Chi-square
  - C: T-Score
  - D: X-score
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**Q9: Is Variability a part of ANOVA?**

- A: No
  - B: Yes
  - C: Partially Yes
  - D: Partially No
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## Answers

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**Q1:** B - Compare three or more means

**Q2:** C - 0 to positive infinity

**Q3:** A - One-Way ANOVA

**Q4:** D -  $F = MSB/MSE$

**Q5:** D - All of These

**Q6:** B - Analysis of Variance

**Q7:** C - F

**Q8:** A - F-ratio

**Q9:** B - Yes