

COEFFICIENT OF DETERMINATION FORMULA

The coefficient of determination meaning, R-squared, is a numerical value between zero and one. It seeks to assess how well a statistical model can predict an outcome. In simpler terms, R-squared represents the percentage of variability in the dependent variable that the statistical model can accurately explain.

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Q1: What does an R-squared value of 0 indicate?

- A: A perfect fit
 - B: No variance explained
 - C: A strong positive correlation
 - D: A strong negative correlation
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Q2: Can R-squared be negative?

- A: Yes, in certain cases
 - B: No, it's always positive
 - C: Only when there are outliers
 - D: Only in non-linear regression
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Q3: In a regression context, what does a low R-squared value suggest?

- A: A strong relationship between variables
 - B: A poor fit of the model
 - C: High predictive accuracy
 - D: Overfitting
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Q4: What does an R-squared value of 1 indicate?

- A: A perfect fit
 - B: No variance explained
 - C: A strong positive correlation
 - D: A strong negative correlation
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Q5: What is the best score of R-squared?

- A: 0.3
 - B: 0.5
 - C: 0.4
 - D: 0.7
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Q6: What is the Coefficient of Determination?

- A: r
 - B: r + 2
 - C: r - 2
 - D: r²
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Q7: Is it Possible to use R-squared for Non-Linear Regression?

- A: Yes
 - B: At times
 - C: No
 - D: In special situations
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Q8: What is RSS in Coefficient of Determination?

- A: Residual sum of Squares
 - B: Residual Squares of Sum
 - C: Regression Sum of Squares
 - D: Regression Squares of Sum
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Q9: What is the value of Σx in the formula of R-squared?

- A: Total value of the second variable
 - B: Total of the first variable
 - C: The sum of both variables
 - D: None of these
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Q10: What is the value of Σxy in the formula of R-squared?

- A: The sum of the first and second variable
 - B: The first variable minus the second variable
 - C: The sum of the product of the first and second variable
 - D: Product of first and second variable
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Answers

Q1: D - A strong negative correlation

Q2: B - No, it's always positive

Q3: B - A poor fit of the model

Q4: A - A perfect fit

Q5: D - 0.7

Q6: D - r^2

Q7: C - No

Q8: A - Residual sum of Squares

Q9: B - Total of the first variable

Q10: C - The sum of the product of the first and second variable