

CHAPTER OVERVIEW

9: Linear Regression and Correlation

Regression analysis is a statistical process for estimating the relationships among variables and includes many techniques for modeling and analyzing several variables. When the focus is on the relationship between a dependent variable and one or more independent variables.

9.1: Prelude to Linear Regression and Correlation

9.2: Linear Equations

9.2E: Linear Equations (Exercises)

9.3: Scatter Plots

9.3E: Scatter Plots (Exercises)

9.4: The Regression Equation

9.4E: The Regression Equation (Exercise)

9.5: Testing the Significance of the Correlation Coefficient

9.5E: Testing the Significance of the Correlation Coefficient (Exercises)

9.6: Prediction

9.6E: Prediction (Exercises)

9.7: Outliers

9.7E: Outliers (Exercises)

9.8: Regression - Distance from School (Worksheet)

9.9: Regression - Textbook Cost (Worksheet)

9.10: Regression - Fuel Efficiency (Worksheet)

9.E: Linear Regression and Correlation (Exercises)

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