

## CHAPTER OVERVIEW

### 12: 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.

12.1: Prelude to Linear Regression and Correlation

12.2: Linear Equations

12.2E: Linear Equations (Exercises)

12.3: Scatter Plots

12.3E: Scatter Plots (Exercises)

12.4: The Regression Equation

12.4E: The Regression Equation (Exercise)

12.5: Testing the Significance of the Correlation Coefficient

12.5E: Testing the Significance of the Correlation Coefficient (Exercises)

12.6: Prediction

12.6E: Prediction (Exercises)

12.7: Outliers

12.7E: Outliers (Exercises)

12.8: Regression - Distance from School (Worksheet)

12.9: Regression - Textbook Cost (Worksheet)

12.10: Regression - Fuel Efficiency (Worksheet)

12.E: Linear Regression and Correlation (Exercises)

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