Print

Practice: Fitting a Simple Linear Regression Model

In JMP, open the file **Cleaning.jmp**.

1. Using the **Graph Builder** on the Graph menu, fit a regression line for **Removal** (Y Zone) as a function of **ID** (X Zone). To fit the regression line, click the **Line of Fit** icon above the graph.

2. Under the Line Of Fit options, select the **Equation** check box to display the regression equation.

   a. What is the regression equation?

   b. For every one unit increase in **ID**, **Removal** increases by how many units?

   c. What is the predicted **Removal** for a part with an **ID** of 10?

   a. Removal = 4.477 + 0.6501*ID

   b. The slope coefficient is 0.6501. For every one unit increase in **ID**, **Removal** increases by 0.6501 units on average.

   c. 4.477 + 0.6501*10 = 10.978

Hide Solution

Statistical Thinking for Industrial Problem Solving

Close