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Practice: Fitting a Model with Categorical Predictors

Open the file **VSSTeamData.jmp** in JMP. Make sure that the five outliers for **Yield** have been hidden and excluded.

1. Select **Analyze, Fit Model** to fit a model for **MFI** and use all of the continuous predictors (**SA** through **Ambient Temp**), with both **Quarry** and **Shift**, as model effects.

    a. **Quarry** is a three-level categorical variable. How many coefficients for **Quarry** are reported in the Parameter Estimates table?

    b. Is either **Shift** or **Quarry** a significant predictor of **MFI**?

a. Two coefficients are reported. The k-1 coefficients are reported for categorical predictors, where k is the number of levels. 3-1 = 2.

b. No, neither categorical predictor is significant (given the other predictors in the model). The *p*-value for **Shift** is 0.608, and the *p*-value for **Quarry** is 0.628.

Hide Solution

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