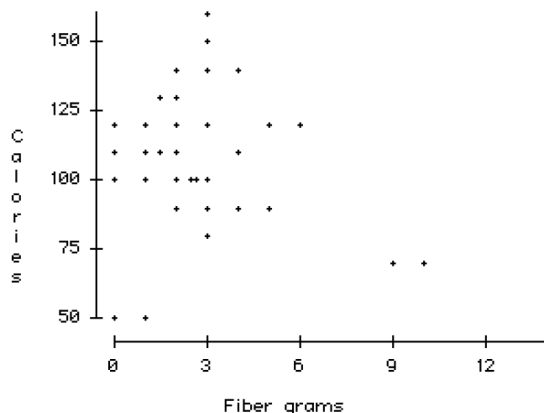


Show all necessary work and place your answers in the spaces provided.

Current research states that a good diet should contain 20-35 grams of dietary fiber. Research also states that each day should start with a healthy breakfast. The nutritional information for 77 breakfast cereals was reviewed to find the grams of fiber and the number of calories per serving. The scatterplot below shows the relationship between fiber and calories for the cereals.

1. Do you think there is a clear pattern? Describe the association between fiber and calories.



2. Comment on any unusual data point or points in the data set. Explain.
3. Do you think a model could accurately predict the number of calories in a serving of cereal that has 22 grams of fiber? Explain.