## OLD FAITHFUL



Students in Dr. Graves' class were discussing the Old Faithful eruption data. They remembered that the data included the time of eruption, called the duration, and the time between eruptions called the interval. When the data was graphed, a scatterplot like the one below was created.

They are remembered the model eruption of Old Flaskful in the classroom. The eruption occurred several times, even though each time had less and less water in the funnel and flask.

Answer the following in complete sentences, providing evidence for your responses.

1. When creating the scatterplot, what primary SEP(s) was/were being used?

2. What are the variables in the data set?

3. Explain HOW the data could be used to predict an eruption time for Old Faithful.



4. When Old Flaskful erupted in class, what crosscutting concept(s) was/were evident?