Sample Cornerstone Assessment – Part B

Name: _____

{Subject Area}Cornerstone Assessment: Part B. Data Analysis and Scientific Reasoning
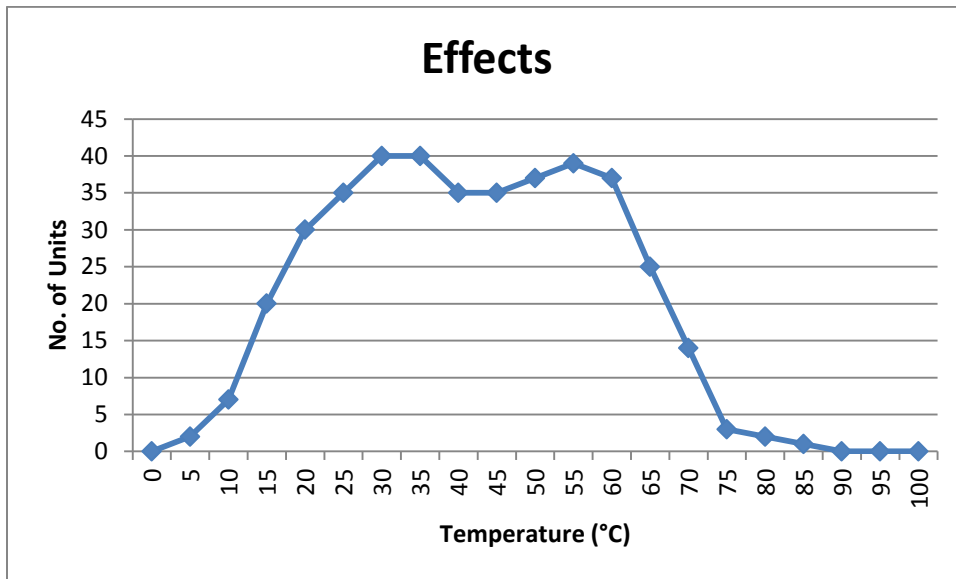Directions: Read the following scenario and then respond to the questions below.

Temperature (°C)	Number of *Units*
0	0
15	9
30	19
45	85
60	195

1. Create a line graph using the data provided above.

2. State the independent variable.

3. State the dependent variable.

4. Using the graph shown, at what temperature does…

5. Based on the chart, how many…

6. Based on the data provided, at what temperature...

7. State the conclusion(s) from the results.

8. How can the experiment be improved?

Effects

9. Describe what happens to the number of units based on increases and decreases in the temperature.

10. At what temperature does change most often occur?

11. At what temperature does the phenomenon discussed most often occur? Use data from the graph to explain your answer.