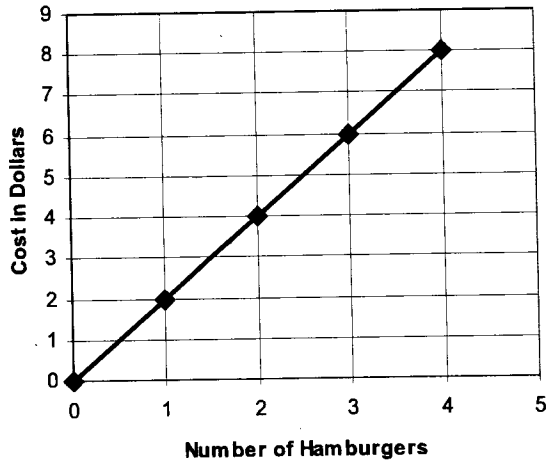


**Meaning of Slope  
Rate of Change in Graphs  
Student Worksheet**

1)

**Hamburger Heaven**



a) What is indicated by the fact that the line is going up from left to right?

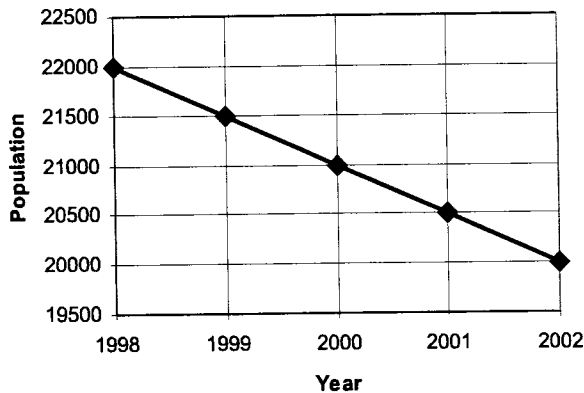
b) According to the graph, what is the slope (rate of change) of the line? Be sure to include your units.

c) What is the meaning of the slope in this situation?

d) Should the points in this example be connected by a line? Explain.

2)

**Smallville Population**



a) What is the unit length on the x-axis? What is the unit length on the y-axis?

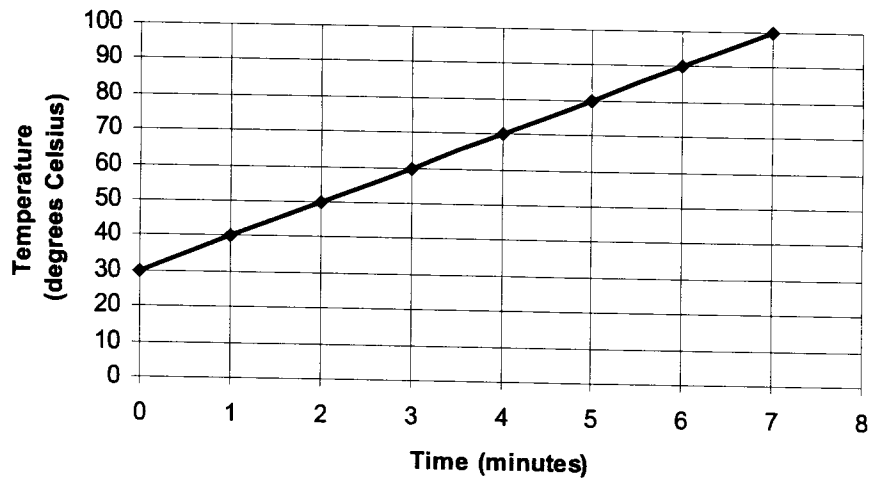
b) What is the slope (rate of change) of the graphed line? Be sure to include units.

c) What does the fact that the line is going down indicate? How is this shown in the slope?

d) What is the meaning of the slope in this situation?

3)

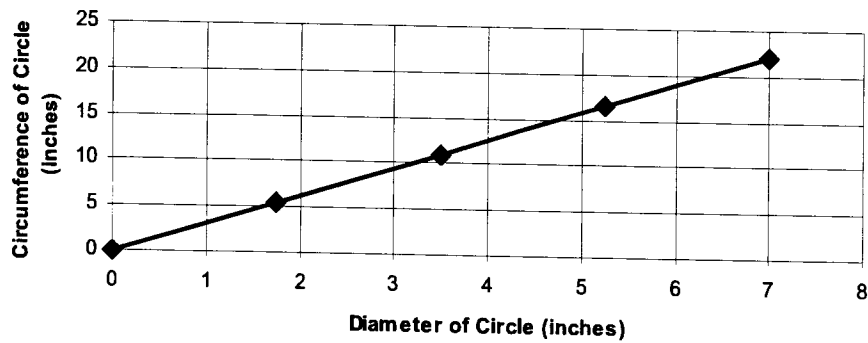
### Heating Water to a Boil



- What is the slope (rate of change) for this graph?
- What is the meaning of the slope in this situation?
- What is the y-intercept and what is its meaning in this situation?

4)

### Comparing Circumference and Diameter



- What is the slope (rate of change) for this graph?
- What is the meaning of the slope in this situation?
- Identify the y-intercept and give it's meaning.