**Graphing Practice**

Marisela thought that changing the temperature of her aquarium water might affect the breathing rate of her fish.   Each day for 7 days, she changed the temperature of the aquarium water and recorded how many breaths her fish took per minute.  Here are the data she recorded:

| Temp (°C) | Breaths/min |
|-----------|-------------|
| 10 | 15 |
| 15 | 25 |
| 18 | 30 |
| 20 | 38 |
| 23 | 60 |
| 25 | 57 |
| 27 | 25 |

Write a hypothesis for Marisela's experiment.
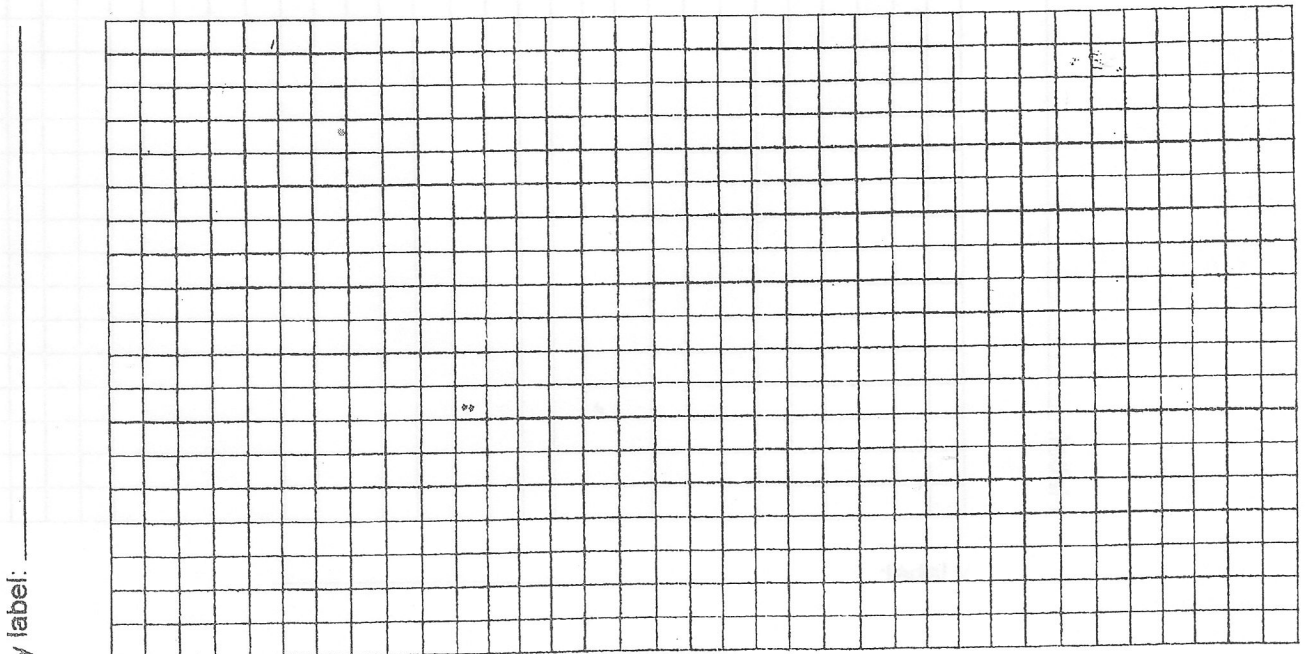
What was the independent variable in this study?

What was the dependent variable in this study?

Based on the data, what is the conclusion of this experiment?

What type of graph should be used to represent these data?

Draw a graph in the space below.  Don't forget to label the axes and give the graph a title.

Title: _____

y label: _____

x label: _____

Ana wanted to know if temperature affects mold growth. She placed a piece of bread in the fridge and another piece of bread on the counter and counted the number of bacterial colonies she saw on each piece of bread for six weeks. Here are the data that she recorded.

| Day | # Mold On Refrigerated Bread | # Mold On Room Temp Bread |
|---|---|---|
| 7 | 0 | 2 |
| 14 | 0 | 8 |
| 21 | 2 | 15 |
| 28 | 6 | 30 |

Write a hypothesis for Ana's experiment.

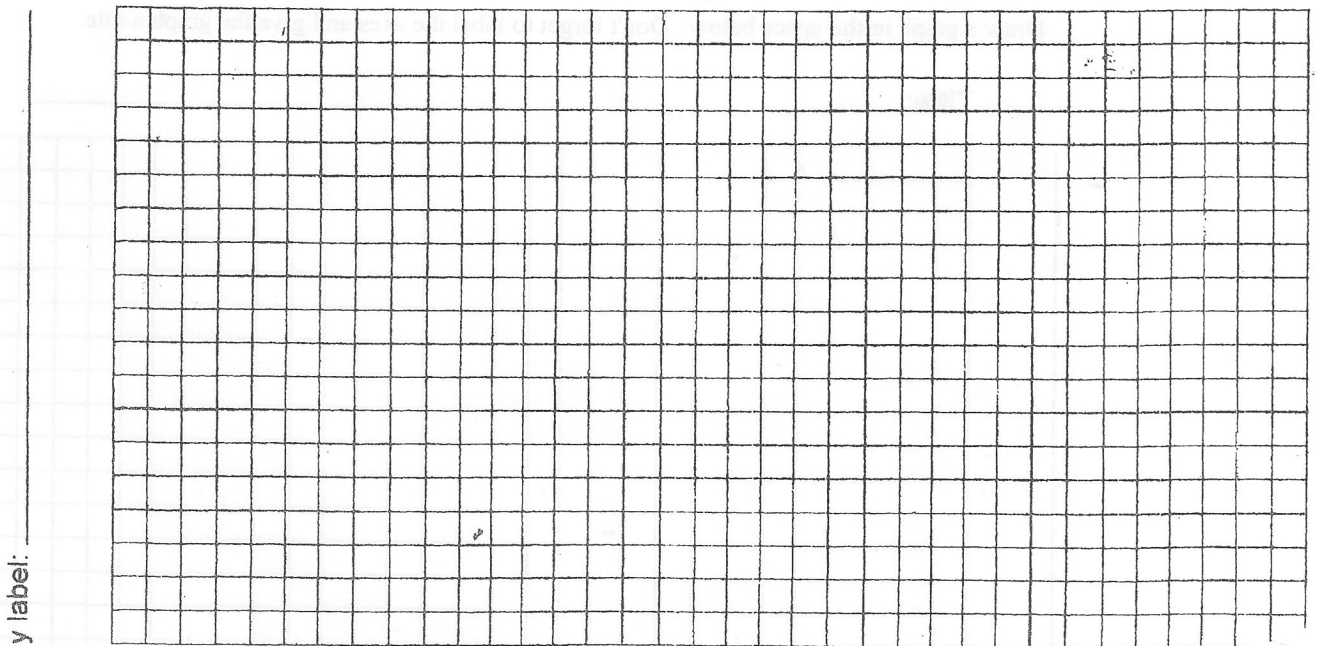What was the independent variable in this study?

What was the dependent variable in this study?

Based on the data, what is the conclusion of this experiment?

What type of graph should be used to represent these data?

Draw a graph in the space below. Don't forget to label the axes and give the graph a title.

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