

Graph Data Cube

Intermediate Edition

Who Cares?



Graphed Data Cube

Glue

Glue

What is the independent variable?



Graphed Data Cube

Glue

Brainstorm a question that you can answer using these data.



Graphed Data Cube



Graphed Data Cube

Glue

What is the dependent variable?

Write a hypothesis statement (or claim) using these data.



Graphed Data Cube

Identify the units of the variables (Independent & Dependent).



Graphed Data Cube





Graph Data Cube Questions:



1. Who Cares?

- A. Brainstorm who would be interested in the data presented in this graph (i.e., farmers, snow skiers, etc.).
- B. Why do you think these data are important to this community?

2. What is the Independent Variable?

- A. How does the amount of this variable affect the dependent variable?
- B. What variable is causing the change?
- C. What is the range of the values of this variable?

3. What is the dependent variable?

- A. What variable changes as a result of being dependent upon a different one?
- B. What is the range of the values of this variable?

4. Brainstorm a question that you can answer using these data.

- A. How does...
- B. I wonder if ...
- C. How is _____ the same as? Different than?
- D. How many...?
- E. How long...?
- F. How often...?

5. Write a hypothesis statement (or claim) using these data.

- A. Write a testable statement or claim about the two variables that offers an explanation of what happened in the past to explain our what we observe. (e.g., "If _____, then _____.")
- B. What qualitative evidence do you have to support your claim?
Quantitative?
- C. How does the evidence support the claim? How do these relate?

6. Characterize the Graph.

- A. What are the labels of the two axes?
- B. What are the scales of the two axes?
- C. Identify the units of the two variables.