

Graph Data Cube

Advanced Edition

Describe
Patterns or
Cycles

Glue

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Glue

Describe
Longer-term
trends

Summarize
the
Graph

Identify a
Relationship
Between
2 Variables

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Summarize
Short-term
trends

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Evaluate
the
Graph

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Graph Data Cube Questions:



1. Summarize the graph:

- What variable does this graph represent?
- What variable is represented on the x-axis?
- What variable is represented on the y-axis?
- What are the units of measurement for x and y axes?
- What is the range of the units of measurement for x and y axes?
- If this graph represents a geographic location, identify this location on a map or globe.

2. Describe Patterns or Cycles:

- Do the data repeat in recognizable ways? Explain.
- What kinds of patterns do you see in the distribution of the data?
- How do the patterns you see in the graph relate to other things you know?

3. Identify a Relationship Between Two Variables:

- Describe the association or relationship of the variables: positive, negative, or none.
- Brainstorm one variable that you predict to be directly proportional. Explain.
- Brainstorm one variable that you predict to be inversely proportional. Explain.

4. Describe Longer-term trends:

- How does the average change over time on the scale of years to decades?
- Describe any pattern you see as you observe data over years to decades.

5. Summarize Short-term trends:

- What is the mean over the period of time to the scale of days, weeks, months?
- What general trend did you notice in your data?

6. Assess the Graph Values:

- What is the numerical range of the data? Mean? Median? Mode?
- How is the mean different from the mode?
- Are there any outliers? If so, what are they?