

Name: Key

Date: _____ Period: _____

Graphing Skill #2: Labeling Axes

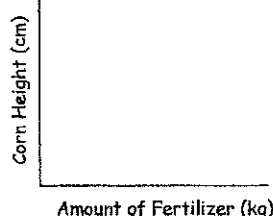
When labeling your axes, keep 3 things in mind:

- ☐ The independent (manipulated) variable is written along the horizontal axis (X axis)
- ☐ Dependent (responding) variable is written along the vertical axis (Y axis)
- ☐ Units on any variables should be included in parentheses () following the axis title

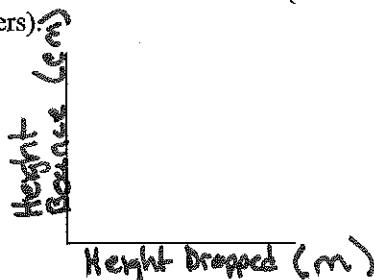
Practice Problems

For each experiment described below, write the independent and dependent variable on the appropriate axis. Be sure to include units when appropriate.

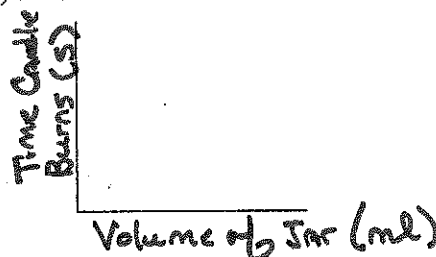
SAMPLE: A farmer wants to know if there is a relationship between the amount of fertilizer (in kilograms) she uses and how tall her corn grows (in centimeters).



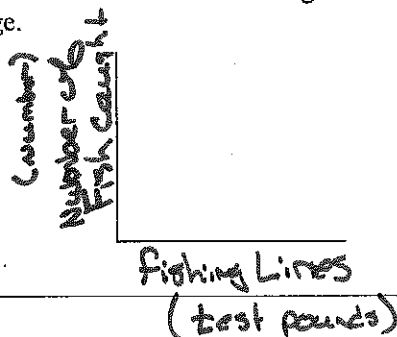
Graph 1: A ball is dropped from several distances above the floor (in meters) and the height it bounces is then measured (in centimeters).



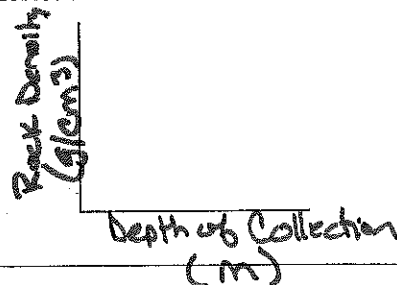
Graph 2: A candle was burned under glass jars of different volumes (in mL) to see if the volume of the jar affects the length of time (in seconds) the candle burns.



Graph 3: A fisherman used fishing lines of several different gauges (test pounds) and recorded the number of fish caught on each gauge.



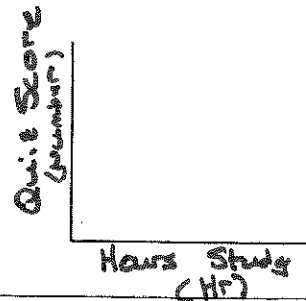
Graph 4: Geologists wanted to know if there was a relationship between the density (in g/cm³) of a rock and how many meters down it was collected from.



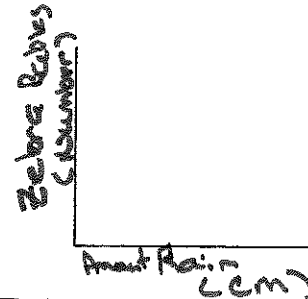
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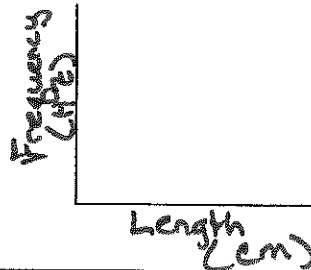
Graph 5: Is there a relationship between the numbers of hours a student studies and the score s/he gets on the weekly quiz?



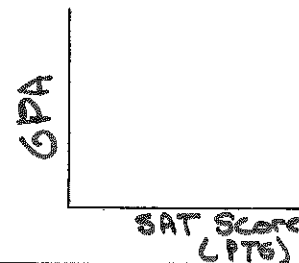
Graph 6: A scientist studied the relationship between amount of rain (in cm) and the numbers of zebra babies born each spring.



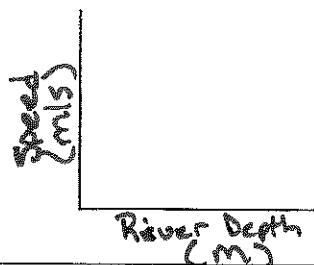
Graph 7: Do longer pendulums (measured in cm) have higher frequencies (measured in Hertz)?



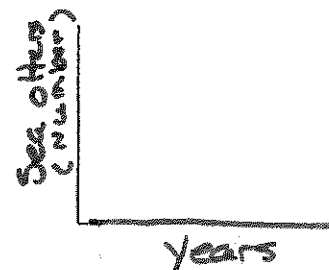
Graph 8: Does the grade point average that a student earns in college depend on his/her SAT score from high school?



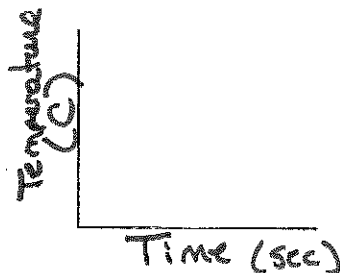
Graph 9: How does the depth of a river (in meters) impact its speed (measured in meters per second)?



Graph 10: Sea otters were counted over a several years to see if their numbers were decreasing over time.



Graph 11: Does the length of time an ice cube is in water (in seconds) affect the temperature of the water (in degrees Celsius)?



Graph 12: Does the amount of nitrogen in the soil (measured in kilograms) affect corn production (measured in kilograms)?

