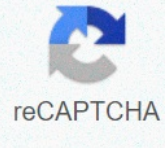




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Graphing review worksheet smith biology answers

Name smith

A line chart has a vertical axis and a horizontal axis. For example, if you wanted to make a graph of the height of a ball after you throw it, you would put time along the horizontal, or X-axis, and height along the vertical, or y-axis. Line charts are important in science for several reasons such as: showing data-specific values. If one variable is known, the other can be determined. showing trends and relationships in data clearly. They visibly portray how one variable is affected by the other as it increases or decreases. allowing the viewer to make predictions within recorded data, called interpolation, and make predictions about unrecorded data, called extrapolation. interpolation vs. Extrapolation Determine which of the examples below is interpolation and what the extrapolation is. Explain why. 1. The value of Sarahs' car in 2004 was \$17,500. _____ 2. The value of Sarahs' car in 2008 was \$1,900.

Typically found on the left side of a data table b. Dependent Variable Factor that is measured in an experiment and will change as a result of the independent variable i. The label along the y-axis (vertical) includes units ii. Typically found on the right side of a data table 2. Determine the scale of graph A. Determine the magnitude (numeric value) of each variable b. Establish a scale that best fits the range of each variable c. Spread the chart to use the most available space (use at least the chart) d. Be consistent on each axis scale 3. Plot the data points a. Plot each data value in the chart with a point b. If multiple datasets are being plotted, use different colored lines and include an Independent key vs. Dependent Variable Practice A student wanted to observe how changing the aquarium water temperature would affect the respiration rate of their goldfish. what is the independent variable? _____ what is the dependent variable? _____ Nome smith

the following types of graphics: i. Best Fit Straight Line ii. Best Fit Line Curve iii. Best Fit Peak Line 5. Chart title a. Titles are used to clearly portray what the chart is about to be specific. B. Titles are typically written as variable Y-axis vs. X-axis variable and are written at the top of the chart. CONSTANT RELATIONSHIP -The change in one variable has no effect on the other DIRECT RELATIONSHIP - Both variables increase together Chart information can be found in your book on pages 1099-1101. INDIRECT RELATION - As one variable increases, the other decreases shows an ideal example. Remember the golden fish experiment. The appropriate title for this chart would be The Breathing Rate of Goldfish vs. The Temperature of Water. Name smith

fires or insect infestation. On the other hand, a thick ring means a prosperous period of development. Use the data table information below to create a suitable scientific chart and answer the corresponding questions. Age of Trees (in years) Average thickness of annual rings in forest A (mm) Average thickness of annual rings in forest B (mm) 10 20 24 24 28 30 30 35 35 34 34 38 50 41 45 60 46 51 1. What is the dependent variable? _____ 2. What is the independent variable? _____ 3. What was the average thickness of the 40-year-old annual tree rings in Forest A? _____ 4. What is it called when you make predictions within certain data, as done in question #3? _____ 5. What was the average thickness of the annual rings for all the trees found in Forest B? _____ 6. Based on the data shown, what can be completed about the comparative health of Forest A&B? _____ 7. What kind of relationship (constant, direct or indirect) is there between the age of the trees and the average thickness of the tree rings? Explain. Name smith

Water temperature (C) Number of development development 15 72 20 92 25 120 30 140 35 99 40 72 45 36 50 0 1. What is the dependent variable? _____ 2. What is the independent variable? _____ 3. What is the ideal temperature for the development of molluscs? _____ 4. What is the average number of molluscs per sample? _____ 5. Approximately how many molluscs would be developing in 10 degree Celsius water? _____ 6. What's it called when you make predictions about unregistered data, such as the prediction we made in question number 5? _____ Nome smith

13.3 150 15 1. What is the dependent variable? _____ #3 _____ 2. What is the independent variable? _____ A cada 30 minutos ela verificava o pedômetro para determinar até onde tinha corrido. Use the data below to create an appropriate scientific chart and answer the corresponding questions. Time (minutes) Total distance (km) 0 30 6.8 60 10.1 90 12 120 3. How many miles did Natalie run after 40 minutes? _____ 4. What was Natalies' average speed (in miles per hour) during her race? _____

Each chart compares the distance that a car is at home compared to time. _____ 1. I had just left home when I realized I had forgotten my books, so I went back for them. _____ 2. The battery in my electric car started to drop. _____ 3. Things were fine until I had a flat tire. _____ 4. I started quietly, but I accelerated when I realized I was going to be late. Practical Problem #5 Background: The pie chart shows the approximate percentages that teens spend doing various activities in one day. Use the on the pie chart to answer the questions below. 1. What percent of the day is spent watching TV? _____ 2. How many hours are spent sleeping? _____ 3. Which activity takes the least time? _____ 4. What activity occupies a quarter of the day? _____ 5. That two activities take 50% of the day? _____ 6. What two activities lead to 25% of the day? _____ 2. 2.

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