

Laboratory Skills 8

Using Graphing Skills

Time required: 30 minutes

Introduction

Recorded data can be plotted on a graph. A graph is a pictorial representation of information recorded in a data table. It is used to show a relationship between two or more different factors. Two common types of graphs are line graphs and bar graphs.

In this investigation, you will interpret and construct a bar graph and a line graph.

Problem

How do you correctly interpret and construct a line graph and a bar graph?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. Would a line graph or a bar graph be better for showing the number of birds of each color in a population?

Bar graph.

2. How could you plot more than one responding variable on a line graph?

Using multiple lines on a line graph with a corresponding key as to the responding variable that each line represents.

3. Where do you place the manipulated variable on a line graph?

The x-axis.

4. Which type of graph would you use to show comparisons? Explain the reason for your answer.

Bar graph. On bar graphs the x-axis can have labels instead of a numerical scale.

5. Why is it important to have all parts of a graph clearly labeled and drawn?

Graphs that are clearly labeled are much less likely to be misread or misinterpreted.

Procedure

Part A. Interpreting Graphs

1. The type of graph that best shows the relationship between two variables is the line graph. A line graph has one or more lines connecting a series of points. See Figure 1. Along the horizontal axis, or x-axis, you will find the manipulated variable in the experiment. Along the vertical axis or y-axis, you will find the responding variable.

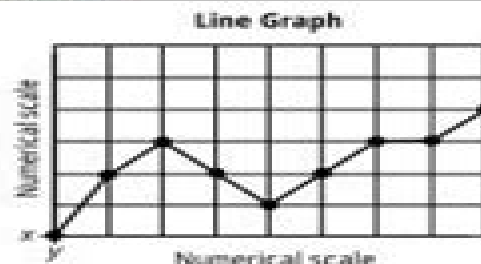


Figure 1

Using Graphing Skills Lab Answers

**Judith A. Muschla, Gary R. Muschla, Erin
Muschla-Berry**



Using Graphing Skills Lab Answers:

Algebra Teacher's Activities Kit Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-30 Help your students succeed with classroom ready standards based activities The Algebra Teacher's Activities Kit 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12 Coverage includes whole numbers variables equations inequalities graphing polynomials factoring logarithmic functions statistics and more and gives you the material you need to reach students of various abilities and learning styles Many of these activities are self correcting adding interest for students and saving you time This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday relevance Algebra lays the groundwork for every math class that comes after it so it's crucial that students master the material and gain confidence in their abilities The Algebra Teacher's Activities Kit helps you face the challenge well armed with effective activities that help students become successful in algebra class and beyond Miller Levine Biology 1e Lab Manual a (Average Advanced) Student Edition 2002c Prentice Hall Direct Education Staff, 2001-04 One program that ensures success for all students Math Trailblazers 2E G4 Teacher Implementation Guide, 2003 A research based NSF funded K5 mathematics program integrating math science and language arts Includes a Spanish translation of instructional units Math Trailblazers 2E G3 Teacher Implementation Guide TIMS Project, 2004 A complete research based K 5 mathematics program integrating math science and language arts The program embodies the NCTM Principles and standards for school mathematics and is based on the ideas that mathematics is best learned by solving problems in real world contexts and that a curriculum should balance conceptual understanding and procedural skill P 4 of cover

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Biology Kenneth Raymond Miller, Joseph S. Levine, 1995 **Step-by-Step Lotus 1-2-3** Miguel Pendas, 1994 Holt Science & Technology Calculator-Based Labs Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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This book delves into Using Graphing Skills Lab Answers. Using Graphing Skills Lab Answers is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Using Graphing Skills Lab Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Using Graphing Skills Lab Answers
 - Chapter 2: Essential Elements of Using Graphing Skills Lab Answers
 - Chapter 3: Using Graphing Skills Lab Answers in Everyday Life
 - Chapter 4: Using Graphing Skills Lab Answers in Specific Contexts
 - Chapter 5: Conclusion
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 5. In chapter 4, this book will scrutinize the relevance of Using Graphing Skills Lab Answers in specific contexts. The fourth chapter will explore how Using Graphing Skills Lab Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Using Graphing Skills Lab Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Using Graphing Skills Lab Answers.

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