

Laboratory Skills 8

Using Graphing Skills

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.

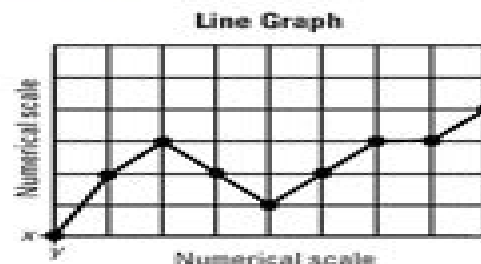


Figure 1

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**Barry J. Fishman, Samuel F. O'Connor-
Divelbiss**



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Prentice Hall Scientific Learning System Prentice-Hall Staff,1994 **Prentice Hall Science Explorer** Michael J. Padilla,2002 **Prentice Hall Science** Anthea Maton,Jill D. Wright,Jean Hopkins,Susan Johnson,David Lahart,Maryanna Quon Warner,1994 **Children in the Information Age** Blagovest Sendov,Ivan Stanchev,2014-05-17 Children in the Information Age Opportunities for Creativity Innovation and New Activities contains selected papers from the Second International Conference and Exhibition Children in the Information Age Opportunities for Creativity Innovation and New Activities held in Sofia Bulgaria 19 23 May 1987 The contributions made by researchers at the conference covered topics such as the past present and future of school informatics in the USSR the family computer boom and its implications for computer literacy the new meanings of literacy related to new information and communication technologies computer use in education and literacy in the information age Other papers dealt with computer based training in India knowledge based systems for use in pedagogical contexts informatics competitions in Germany the information age information and communication technology in the French educational system and the role of information technology in education in Australia The final two chapters present the recommendations that emerged from the conference as well as the recommendations of the Working Meeting of Editors of Journals and Magazines on Informatics in Education **Matter, Building Block of the Universe** ,1993 *Electricity and Magnetism* ,1993 **Motion, Forces** Prentice-Hall Staff,1994 Reviewed in The Textbook Letter 3 4 94 **Graph Theory for Computer Science** Manikandan Rajagopal,Ramkumar Sivasakthivel,Joseph Varghese Kureethara,Niranjana murthy M.,Biswadip Basu Mallik,2025-11-06 This book is a vital resource for anyone looking to understand the essential role of graph theory as the unifying thread that connects and provides innovative solutions across a wide spectrum of modern computer science disciplines Graph theory is a traditional mathematical discipline that has evolved as a basic tool for modeling and analyzing the complex relationships between different technological landscapes Graph theory helps explain the semantic and syntactic relationships in natural language processing a technology behind many businesses Disciplinary and industry developments are seeing a major transition towards more interconnected and data driven decision making and the application of graph theory will facilitate this transition Disciplines such as parallel and distributive computing will gain insights into how graph theory can help with resource optimization and job scheduling creating considerable change in the design and development of scalable systems This book provides comprehensive coverage of how graph theory acts as the thread that connects different areas of computer science to create innovative solutions to modern technological problems Using a multi faceted approach the book explores the fundamentals and role of graph theory in molding complex computational processes across a wide spectrum of computer science **International Conference of the Learning Sciences** Barry J. Fishman,Samuel F. O'Connor-Divelbiss,2013-04-15 The field of the learning sciences is concerned with educational research from the dual perspectives of human cognition and computing technologies and the

application of this research in three integrated areas Design Design of learning and teaching environments tools or media including innovative curricula multimedia artificial intelligence telecommunications technologies visualization modeling and design theories and activity structures for supporting learning and teaching Cognition Models of the structures and processes of learning and teaching by which knowledge skills and understanding are developed including the psychological foundations of the field learning in content areas professional learning and the study of learning enabled by tools or social structures Social Context The social organizational and cultural dynamics of learning and teaching across the range of formal and informal settings including schools museums homes families and professional settings Investigations in the learning sciences approach these issues from an interdisciplinary stance combining the traditional disciplines of computer science cognitive science and education This book documents the proceedings of the Fourth International Conference on the Learning Sciences ICLS 2000 which brought together experts from academia industry and education to discuss the application of theoretical and empirical knowledge from learning sciences research to practice in K 12 or higher education corporate training and learning in the home or other informal settings **Life Science, Grades 6-7** Tony Wright,1994-07-13

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