

Graphing and Analyzing Scientific Data

Graphing is an important procedure used by scientist to display the data that is collected during a controlled experiment. There are three main types of graphs:

Pie/circle graphs: Used to show parts of a whole.

Bar graphs: Used to compare amounts.

<u>Line graphs:</u> Use to show the change of one piece of information as it relates to another change.

Both bar and line graphs have an "X" axis (horizontal) and a "Y" axis (vertical).

Parts of a Graph:

Title: Summarizes information being represented in ANY graph.

<u>Independent Variable:</u> The variable that is controlled by the experimenter, such as, time, dates, depth, and temperature. This is placed on the X axis.

<u>Dependent Variable:</u> The variable that is directly affected by the I.V. It is the result of what happens as time, dates, depth and temperature are changed. This is placed on the Y axis.

Scales for each Variable: In constructing a graph, one needs to know where to plot the points representing the data. In order to do this a scale must be employed to include all the data points.

A. Graph the following information in a BAR graph. Label and number the x and y-axis appropriately.

Month	# of deer
Sept	38
Oct	32
Nov	26
Dec	20
Jan	1.5
Feb	12



- What is the independent variable? _____
- 2. What is the dependent variable?
- What is an appropriate title? _____

Analyzing Genetic Data Worksheet Answer Key

Arturo Cuomo

Analyzing Genetic Data Worksheet Answer Key:

This Is Your Brain: Teaching About Neuroscience and Addiction Research Terra Nova Learning Systems, 2012 The need for studentsOCO understanding of the value of the neurosciencesOCoand the damaging effects of illicit drug use the mechanisms of addiction and the scientific and ethical basis of animal based drug abuse researchOCois critical to creating a better future for our children from the Introduction This innovative middle school curriculum presents 10 comprehensive ready to use lessons about contemporary real world issues involved in drug use and abuse Cell-Free Synthetic Biology 15 TGT Art Test Papers EMRS Mocktime Publication, EMRS Jian Li, Yong-Chan Kwon, Yuan Lu, Simon J. Moore, 2022-01-13 Exam Teachers TGT Art Test Papers 15 Practice Papers Tier 1 Eklavya Model Residential Schools as per Official Exam Educart CBSE Class 12 Biology One Shot Question Bank 2026 (Includes PYQs for 2025-26) Pattern and Syllabus Educart, 2025-06-07 Quick chapter summaries full practice in one place This One Shot Biology Question Bank helps Class 12 students revise the full syllabus efficiently and practice important questions for the 2025 26 CBSE exam Key Features Based on Latest CBSE Syllabus 2025 26 All chapters and topics covered exactly as per the official curriculum One Shot Format Each chapter includes crisp theory notes key diagrams and a set of exam relevant questions Includes All CBSE Question Types Case based Assertion Reason MCQs Short and Long Answer Questions plus Competency based practice PYQs for Better Exam Understanding Previous year questions from latest CBSE papers included chapterwise NCERT aligned Content All questions and summaries follow the Class 12 NCERT Biology textbook for accurate preparation Step by Step Solutions Well structured answers based on the CBSE marking scheme to help students improve their writing Designed for Fast Revision Ideal for last minute prep crash courses or quick concept recall before exams This Class 12 Biology One Shot book is a must have for smart revision and scoring high in CBSE board exams Handbook of Biology Chandan Senguta, This book has been published with all reasonable efforts taken to make the material error free after the consent of the author No part of this book shall be used reproduced in any manner whatsoever without written permission from the author except in the case of brief quotations embodied in critical articles and reviews The Author of this book is solely responsible and liable for its content including but not limited to the views representations descriptions statements information opinions and references The Content of this book shall not constitute or be construed or deemed to reflect the opinion or expression of the Publisher or Editor Neither the Publisher nor Editor endorse or approve the Content of this book or guarantee the reliability accuracy or completeness of the Content published herein and do not make any representations or warranties of any kind express or implied including but not limited to the implied warranties of merchantability fitness for a particular purpose The Publisher and Editor shall not be liable whatsoever for any errors omissions whether such errors or omissions result from negligence accident or any other cause or claims for loss or damages of any kind including without limitation indirect or consequential loss or damage arising out of use inability to use or about the reliability accuracy or sufficiency of the

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