

CHAPTER 6

6.1 Interpreting and analysing data

Purposes of graphs:

- a way of exploring the relationships in data
- a way of displaying and reporting data
- making it easier to report patterns and relationships, shapes of distributions and trends.

Any graph used to report findings should show:

- the significant features and findings of the investigation in a fair and easy-to-read way
- the underlying structure of an investigation in terms of the relationships between and within the variables
- the dependent variable on the horizontal (x) axis and the independent variable on the vertical (y) axis.

Types of graphs

We have the following types of graphs:

- Line graph
- Bar graph
- Histogram
- Scatter plot
- Pie chart
- Box and whisker plot

6.1.1 Line graphs

In data handling we use line graphs to show the relationship between two quantities. A line graph is formed by using straight lines to join data points which have been mapped on a grid. It is used to show the change of information over time.

Worked example 10

The table below shows the average number of minutes per month that Jabu spent watching TV from January to November last year.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Daily TV viewing time (min)	108	103	108	120	115	122	116	105	110	105	104

- Plot this data on a set of axes.
- Can you observe any trends or patterns in the data? Give some possible reasons for these trends.
- Would you be able to represent this data on a bar graph?
- What is the advantage of using a line graph to show this information?

Grade 12 Mathematical Literacy 2013 Study Guide

PT Brinkman



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Teaching and Learning Secondary School Mathematics Ann Kajander, Jennifer Holm, Egan J Chernoff, 2018-10-24 This volume brings together recent research and commentary in secondary school mathematics from a breadth of contemporary Canadian and International researchers and educators It is both representative of mathematics education generally as well as unique to the particular geography and culture of Canada The chapters address topics of broad applicability such as technology in learning mathematics recent interest in social justice contexts in the learning of mathematics as well as Indigenous education The voices of classroom practitioners the group ultimately responsible for implementing this new vision of mathematics teaching and learning are not forgotten Each section includes a chapter written by a classroom teacher making this volume unique in its approach We have much to learn from one another and this volume takes the stance that the development of a united vision supported by both research and professional dialog provides the first step *The Four Roles of the Numerate Learner* Mary Fiore, Maria Luisa Lebar, 2016-03-14 This timely book builds on our current understanding of how to effectively teach mathematics and borrows from the successful frameworks used to teach literacy It introduces a numeracy framework sense maker skill user thought communicator and critical interpreter that supports an integrated approach to math instruction It considers the mathematical practices students need to learn to construct number knowledge become mathematicians and simply do math The goal is to provide multiple entry points into the world of math instruction a new way of thinking and learning where learners engage in critical thinking about numeracy and act on their knowledge

The Connection Between Mathematical and Reading Abilities and Disabilities Shelley Shaul, Joanna Christodoulou, Maria T. Sikkema-de Jong, 2022-05-03 [Literacy Strategies for English Learners in Core Content Secondary Classrooms](#) Margarita Espino Calderon, Maria N. Trejo, 2015-10-08 Motivate English learners to boost proficiency with confidence This book focuses on instructional strategies that integrate language literacy and content across all subject areas in secondary education Presenting instructional methods within the framework of the Common Core and other state standards the authors demonstrate how rigorous instruction can help amplify students self worth and promote more significant learning to ensure all students thrive **Making Sense of Number, K-10** Mary Fiore, Ryan Tackaberry, 2018-11-27 This practical book shows you how to get to know the needs and abilities of your students and help them make sense of math concepts Designed to enhance your professional learning the book shows you how to notice interpret confirm and respond to student thinking You will discover how to structure learning experiences around key number concepts quantity counting relating and representing developed across various strands patterning and algebra numbers and operations measurement geometry and data and probability Powerful examples of questions and prompts guide you to create a classroom where students get the support they need as they develop confidence in their number sense

Engineering Ingenuity NAGC, 2025-12-30 Engineering Ingenuity Instruction for High Ability Learners in K 8

Classrooms offers a groundbreaking exploration of innovative strategies interdisciplinary approaches and cutting edge technologies designed to empower gifted and talented students in STEM education This updated edition dives deeper into the intersection of engineering creativity and advanced cognitive abilities providing educators with actionable frameworks to inspire the next generation of problem solvers and innovators Chapters explore interdisciplinary learning by integrating science mathematics reading and engineering design to create dynamic inquiry based experiences that foster critical thinking and innovation This new edition also highlights the transformative potential of artificial intelligence and machine learning in personalized learning addresses equity and inclusion in STEM by providing strategies to overcome barriers faced by underrepresented Black and Hispanic students and emphasizes the importance of guided play in developing early math and spatial skills Additionally it explores problem based learning to deeply engage students with engineering concepts and enrichment opportunities that nurture their interests and talents Packed with evidence based strategies practical examples and visionary insights this comprehensive resource equips educators administrators and parents with the tools they need to transform K 8 classrooms into hubs of creativity collaboration and innovation ensuring high ability learners thrive in engineering and STEM fields

Researching Developing Countries Forrest Daniel Wright,2015-11-19 Why are some countries rich while others are poor Why are some well governed while others experience frequent conflict And how do you measure a country s true success anyways Social scientists have attempted to answer these types of questions for decades and have increasingly turned to data for this task Researching Developing Countries A Data Resource Guide for Social Scientists serves as a reference guide for social scientists and students interested in answering these complex questions The book will also be helpful to librarians serving the social science disciplines Topics covered in the book include human development economics governance conflict demographics migration and refugees environment foreign aid energy and infrastructure innovation and entrepreneurship geography and urban development and public opinion Covers over 30 countries with emerging markets Explores a wide array of topics for each country and their investment opportunities Includes a focus on international audiences as the book expands beyond the US market

Thinking and Acting Systemically Alan Daly,Kara Finnigan,2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complex systems change

The Skill Approach in Education Mehmet Serdar Erciș,Yusuf Söylemez,2018-07-27 Today information and technological developments grow at a rapid pace Social and political life becomes more and more complicated and in this process active citizenship becomes more essential Knowledge driven changes in society and economies require individuals to quickly acquire new skills Otherwise it is

increasingly difficult for employees to adapt to business life and to find a job Education has to take account of these circumstances adapt to the rapid developments in the world and educate individuals to continue lifelong learning For this skills such as active and independent learning assertiveness creativity self improvement lifelong learning are important Skill teaching differs from knowledge teaching Skill is the transfer of knowledge to practice This process involves a learning process that requires the steps of researching planning controlling and correcting The knowledge should be organized integrated transferred into practice mental and physical resources should be activated and knowledge use should be demonstrated in practice in order to improve the skill This book contributes to the teaching of skills and includes basic concepts and skills language skills science and mathematics skills psycho social skills and visual arts skills It also explains how to teach skills how to prepare for activities and how to implement activities in educational settings These applications are intended to draw attention to skill teaching to raise educators to increase the success of education to improve the skills of students and to enable them to use the skills they have learned in school outside of school and in complex tasks

Academic
Languaging Gisela Ernst-Slavit, Margo Gottlieb, 2025-06-20 Rethink how academic languaging can transform content area teaching For years the teaching of content based academic language to multilingual learners has focused on formulas vocabulary lists and sentence patterns often sidelining students linguistic and cultural strengths Gisela Ernst Slavit and Margo Gottlieb address these challenges by embracing academic languaging an active collaborative student driven process Academic Languaging offers strategies to integrate language and content learning while fostering student engagement voice and agency Dedicated chapters on academic languaging for Language Arts Mathematics Social Studies and Science highlight the dimensions of disciplinary language for each subject and provide strategies for moving learning forward with multilingual learners Additional features include Stop and Think prompts to help educators connect new ideas with their instructional settings Prompts at the end of each chapter to encourage deeper thinking and application of the material Multilingual examples to mirror the varied classroom settings in the U S and beyond The ultimate resource for educators committed to empowering multilingual learners and fostering meaningful culturally sustaining education Academic Languaging ensures multilingual learners comprehend academic content and thrive as confident autonomous drivers of their own learning

Grade 12 Mathematical Literacy 2013 Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Grade 12 Mathematical Literacy 2013 Study Guide**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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