

MATHEMATICAL LITERACY – GRADE 12 NOTES

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?

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Education at a Glance 2023 Sources, Methodologies and Technical Notes OECD,2023-09-12 This publication provides additional reference material for Education at a Glance 2023 the authoritative source for data on the state of education around the world It provides guidance on the data and methodology used to calculate each indicator It also contains references to the sources and specific notes for each country

Teacher Education in Professional Learning Communities Xuefeng Huang,2018-06-20 This book explores the unique experiences of a sister school network in Canada and China contextualized through the lens of the Reciprocal Learning Project which supports the relationship between a school network and teacher education exchange program of two countries Huang uses theoretical viewpoints from teacher learning and comparative education research to analyse and interpret what has happened in the emerging cross cultural school network The book juxtaposes teacher learning and comparative education research from Shanghai and Ontario as teachers in the two places interact and provides detailed descriptions of teacher collaboration to show how these collaborations were initiated developed and sustained as well as the impact brought about from these collaborations The book offers a unique opportunity to examine how Canadian and Chinese teachers receive and react to opportunities of cross cultural collaboration and learning

[Simplifying Common Assessment](#)
Kim Bailey,Chris Jakicic,2016-11-07 Built on the process featured in Common Formative Assessment A Toolkit for PLCs at Work this book demonstrates how educators can develop effective and efficient assessments The authors simplify assessment development to give teacher teams the confidence to write and use team designed common formative assessments that help

ensure all students master essential skills and concepts Design tasks and assessments that feature the greater rigor and complexity the new standards require Use assessment data to make adjustments that increase student learning Explore possible team structures and practices that foster successful use of common assessments Benefits Learn the different purposes that wide angle questions and close up questions serve in reaching assessment goals Understand different types of assessments and what the data gained from each of them can reveal about student learning Frame assessment and feedback methods to pursue the end goal of learning for all Use templates and protocols to unwrap essential learning standards create performance tasks plan appropriate assessments and analyze data Discover a road map that can help guide your work with common assessments Contents 1 Framing the Power of Assessment in Professional Learning Communities 2 Starting With the End in Mind 3 Considering Rigor and Complexity 4 Intentionally Planning of Instruction and Assessment 5 Writing Questions That Work 6 Using Data to Support Student Learning 7 Focusing on Feedback and Grappling With Grading 8 Using Common Formative Assessments in Less Traditional Settings Appendix Road Map for Implementing Common Assessments *A Federal Right to Education* Kimberly Jenkins Robinson, 2023-06-13 The United States Supreme Court closed the courthouse door to federal litigation to narrow educational funding and opportunity gaps in schools when it ruled in *San Antonio Independent School District v Rodriguez* in 1973 that the Constitution does not guarantee a right to education Rodriguez pushed reformers back to the state courts where they have had some success in securing reforms to school funding systems through education and equal protection clauses in state constitutions but far less success in changing the basic structure of school funding in ways that would ensure access to equitable and adequate funding for schools

Teaching Multiplication with Lesson Study Masami Isoda, Raimundo Olfos, 2020-11-23 This open access book is intended to assist teachers teacher trainers curriculum designers editors and authors of textbooks in developing strategies to teach the multiplication of natural numbers based on the experience of the Lesson Study in Japan This approach to mathematics education dates back to the 1870s and reconciles the emphasis on problem solving with the treatment of the curricular contents It has gained international recognition since the 1990s and thanks to it mathematics education in Japan has been recognized as one of the most efficient and innovative in the world This growing international awareness has led to an effort to apply the principles of Lesson Study to other parts of the world and this book shows how experienced authors from Brazil Chile Mexico Spain and Portugal have worked to adapt some of these methods and techniques to the Portuguese and Spanish speaking countries of Ibero America Drawing on the impact of Lesson Study on government curriculum decisions and teacher behavior in Japanese classrooms offering examples of lessons lesson plans and suggestions for teaching and presenting examples of the good reception of the principles of Lesson Study in Ibero America Teaching Multiplication with Lesson Study Japanese and Ibero American Theories for Mathematics Education shows how an efficient and cutting edge experience in mathematics education can travel the world and help teachers in many different countries

Literacy in the Disciplines Thomas DeVere Wolsey, Diane Lapp, 2024-07-30 This successful guide now in a revised and expanded second edition gives teachers effective strategies to support adolescents development of relevant literacy skills in specific disciplines Demonstrating why disciplinary literacies matter the authors discuss ways to teach close reading of complex texts discipline specific argumentation communication and writing skills academic vocabulary and more The book draws on revealing interviews with content area experts and professionals in history science mathematics literature the arts and physical education Teacher friendly tools include 21 reproducible forms that also can be downloaded and printed Try It On practice activities lesson plans chapter anticipation guides and links to recommended online teaching videos New to This Edition Chapter on assessment Chapter on disciplinary literacies beyond school in civic professional and personal life Expanded coverage of math more attention to evidence and sources used in different disciplines new and updated expert interviews and advice on how both teachers and students can use AI tools productively Anticipation guides that invite reflection on key questions before during and after reading most chapters *Connecting Disciplinary Literacy and Digital Storytelling in K-12 Education* Haas, Leslie, Tussey, Jill, 2021-01-15 The idea of storytelling goes beyond the borders of language culture or traditional education and has historically been a tie that bonds families communities and nations Digital storytelling offers opportunities for authentic academic and non academic literacy learning across a multitude of genres It is easily accessible to most members of society and has the potential to transform the boundaries of traditional education As concepts around traditional literacy education evolve and become more culturally and linguistically relevant and responsive the connections between digital storytelling and disciplinary literacy warrant considered exploration *Connecting Disciplinary Literacy and Digital Storytelling in K 12 Education* develops a conceptual framework around pedagogical connections to digital storytelling within K 12 disciplinary literacy practices This essential reference book supports student success through the integration of digital storytelling across content areas and grade levels Covering topics that include immersive storytelling multiliteracies social justice and pedagogical storytelling it is intended for stakeholders interested in innovative K 12 disciplinary literacy skill development research and practices including but not limited to curriculum directors education faculty educational researchers instructional facilitators literacy professionals teachers pre service teachers professional development coordinators teacher preparation programs and students **International Comparative Studies in Mathematics** Jinfa Cai, Ida A.C. Mok, Vijay Reddy, Kaye Stacey, 2016-08-20 It argues that the main purpose of educational research is to improve student learning and that international comparative studies are no exception *Handbook of Literacy in Africa* R. Malatesha Joshi, Catherine A. McBride, Bestern Kaani, Gad Elbeheri, 2023-07-28 This volume highlights the shortcomings concerning literacy development in Africa and collates the current available literature based on empirical research in various countries in a coherent manner Further emphasized is how the current research can guide practical information to improve the literacy situation in Africa The research studies will encompass various fields such as linguistics

neurosciences and education and will provide future research directions and instructional recommendations to improve the literacy situation in Africa

Literacy Essentials Regie Routman, 2023-10-10 In her practical and inspirational book *Literacy Essentials Engagement Excellence and Equity for All Learners* author Regie Routman guides K 12 teachers to create a trusting intellectual and equitable classroom culture that allows all learners to thrive as self directed readers writers thinkers and responsible citizens Over the course of three sections Routman provides numerous Take Action ideas for implementing authentic and responsive teaching assessing and learning This book poses a key question How do we rise to the challenge of providing an engaging excellent equitable education for all learners including those from high poverty and underserved schools Teaching for Engagement Many high performing schools are characterized by a thriving school culture built on a network of authentic communication Teachers can strengthen classroom engagement by building a trusting and welcoming environment where all students can have a safe and collaborative space to grow and develop Pursuing Excellence Routman identifies 10 key factors that describe an excellent teacher ranging from intellectual curiosity to creativity and explains how carrying yourself as a role model contributes to an inclusive caring empathic and fair classroom She also stresses the importance for school leaders to make job embedded professional development a top priority Dismantling Unequal Education The huge gap in the quality of education in high vs low income communities is the civil rights issue of the 21st century according to Routman She spells out specific actions educators can take to create more equitable schools and classrooms such as diversifying texts used in curriculums and ensuring all students have access to opportunities to discuss reflect and engage with important ideas From the author I wrote *Literacy Essentials* because I saw a need to simplify teaching raise expectations and make expert teaching possible for all of us I saw a need to emphasize how a school culture of kindness trust respect and curiosity is essential to any lasting achievement I saw a need to demonstrate and discuss how and why the beliefs actions knowledge we hold determine the potential for many of our students Equal opportunity to learn depends on a culture of engagement and equity which under lies a relentless pursuit of excellence

The Connection Between Mathematical and Reading Abilities and Disabilities Shelley Shaul, Joanna Christodoulou, Maria T. Sikkema-de Jong, 2022-05-03

Global Approaches to Early Learning Research and Practice Kenneth R. Pugh, Peggy McCardle, Annie Stutzman, 2018-02-26 The health development and learning of many young children living in disadvantage areas are at serious risk Access to education has improved under the United Nations Millennium Development Goals and there are now programs in low and middle income countries that are aimed at improving instruction and learning The research and evaluation on the effectiveness of such programs show there are significant challenges but also some successes This issue features presentations of leading international scientists representatives from key governmental and non governmental organizations and others working with programs in the developing world and disadvantaged populations The presentations describe the goals existing challenges and potential approaches to providing evidence based programs to

young children in rural remote and poverty stricken areas Topics covered include the state of early childhood in low and middle income nations programs that have shown some success and innovative research approaches that have been often considered unfeasible in these contexts This is the 158th volume in this Jossey Bass series New Directions for Child and Adolescent Development Its mission is to provide scientific and scholarly presentations on cutting edge issues and concepts in this subject area Each volume focuses on a specific new direction or research topic and is edited by experts from that field

Resources in Education ,1995-12 *Handbook of Research on the Education of Young Children* Olivia N.

Saracho,2019-10-30 The Handbook of Research on the Education of Young Children is the essential reference on research on early childhood education throughout the world This outstanding resource provides a comprehensive research overview of important contemporary issues as well as the information necessary to make knowledgeable judgments about these issues Now in its fourth edition this handbook features all new sections on social emotional learning non cognitive assessment child development early childhood education content areas teacher preparation technology multimedia and English language learners With thorough updates to chapters and references this new edition remains the cutting edge resource for making the field s extensive knowledge base readily available and accessible to researchers and educators It is a valuable resource for all of those who work and study in the field of early childhood education including researchers educators policy makers librarians and school administrators This volume addresses critical up to date research on several disciplines such as child development early childhood education psychology curriculum teacher preparation policy evaluation strategies technology and multimedia exposure *Research on Reasoning with Data and Statistical Thinking: International Perspectives* Gail F.

Burrill,Leandro de Oliveria Souza,Enriqueta Reston,2023-07-21 This book is derived from selected papers from the Fourteenth International Congress on Mathematical Education Topic Study Group 12 Teaching and Learning Statistics It describes recent research on curriculum pedagogy and outreach initiatives from countries as diverse as Brazil Chile Columbia Denmark Germany the Netherlands Spain Sweden Thailand Turkey the United Kingdom and the United States The book has a focus on the use of data in the teaching and learning of statistics across grade levels and begins with an overview of the status of statistics education and the use of data from seven different countries across the continents and the link between research and practice in those countries Because it contains specific examples of the research for example on the ways children learn the choice and implementation of tasks or the role of informal inference the book will be a great resource to those interested and involved in the teaching of statistics curriculum developers and statistics education researchers

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