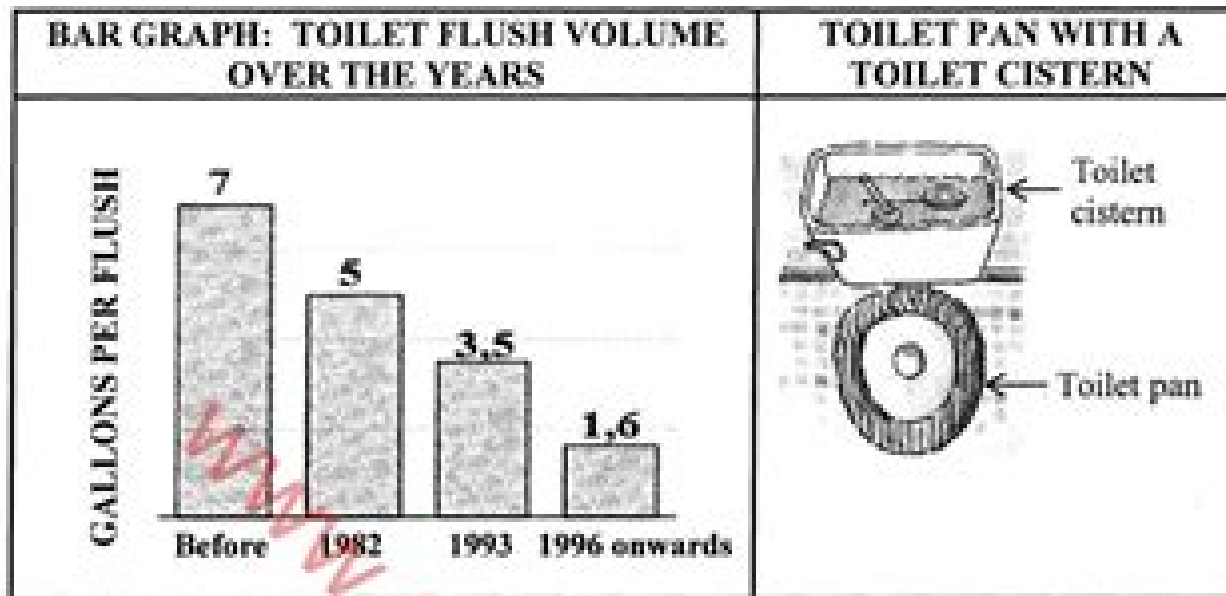


Water is a scarce resource in South Africa. The graph below shows how the volume of water in a toilet cistern has been reduced over the years. The picture next to the graph shows a toilet pan with a toilet cistern.



NOTE: 1 gallon = 3,785 litres

Use the information above to answer the questions that follow.

- 3.2.1 Calculate (in litres) the volume of water used during February 2022 by a family of five, if each person flushed the toilet an average FOUR times a day during the month. (3)
- 3.2.2 State ONE way in which a person can save water in this context. (2)

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Thomas Griffiths



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Assessing Mathematical Literacy Kaye Stacey, Ross Turner, 2014-11-03 This book describes the design development delivery and impact of the mathematics assessment for the OECD Programme for International Student Assessment PISA First the origins of PISA's concept of mathematical literacy are discussed highlighting the underlying themes of mathematics as preparation for life after school and mathematical modelling of the real world and clarifying PISA's position within this part of the mathematics education territory The PISA mathematics framework is introduced as a significant milestone in the development and dissemination of these ideas The underlying mathematical competencies on which mathematical literacy so strongly depends are described along with a scheme to use them in item creation and analysis The development and implementation of the PISA survey and the consequences for the outcomes are thoroughly discussed Different kinds of items for both paper based and computer based PISA surveys are exemplified by many publicly released items along with details of scoring The novel survey of the opportunity students have had to learn the mathematics promoted through PISA is explained The book concludes by surveying international impact It presents viewpoints of mathematics educators on how PISA and its constituent ideas and methods have influenced teaching and learning practices curriculum arrangements assessment practices and the educational debate more generally in fourteen countries [Big Data](#) John Storm Pedersen, Adrian

Wilkinson, 2019 Promise Application and Pitfalls *Multivariate, Multilinear and Mixed Linear Models* Katarzyna Filipiak, Augustyn Markiewicz, Dietrich von Rosen, 2021-10-01 This book presents the latest findings on statistical inference in multivariate multilinear and mixed linear models providing a holistic presentation of the subject It contains pioneering and carefully selected review contributions by experts in the field and guides the reader through topics related to estimation and testing of multivariate and mixed linear model parameters Starting with the theory of multivariate distributions covering identification and testing of covariance structures and means under various multivariate models it goes on to discuss estimation in mixed linear models and their transformations The results presented originate from the work of the research group Multivariate and Mixed Linear Models and their meetings held at the Mathematical Research and Conference Center in Białe Pole Poland over the last 10 years Featuring an extensive bibliography of related publications the book is intended for PhD students and researchers in modern statistical science who are interested in multivariate and mixed linear models

Routledge Handbook of Public Communication of Science and Technology Massimiano Bucchi, Brian Trench, 2014-06-20 Communicating science and technology is a high priority of many research and policy institutions a concern of many other private and public bodies and an established subject of training and education Over the past few decades the field has developed and expanded significantly both in terms of professional practice and in terms of research and reflection The Routledge Handbook of Public Communication of Science and Technology provides a state of the art review of this fast growing and increasingly important area through an examination of the research on the main actors issues

and arenas involved In this brand new revised edition the book brings the reviews up to date and deepens the analysis As well as substantial reworking of many chapters it gives more attention to digital media and the global aspects of science communication with the inclusion of four new chapters Several new contributors are added to leading mass communication scholars sociologists public relations practitioners science writers and others featured herein With key questions for further discussion highlighted in each chapter the handbook is a student friendly resource and its scope and expert contributors mean it is also ideal for both practitioners and professionals working in the field Combining the perspectives of different disciplines and of different geographical and cultural contexts this original text provides an interdisciplinary and global approach to the public communication of science and technology It is a valuable resource for students researchers educators and professionals in media and journalism sociology the history of science and science and technology

Mathematics Education in Singapore Tin Lam Toh, Berinderjeet Kaur, Eng Guan Tay, 2019-02-07 This book provides a one stop resource for mathematics educators policy makers and all who are interested in learning more about the why what and how of mathematics education in Singapore The content is organized according to three significant and closely interrelated components the Singapore mathematics curriculum mathematics teacher education and professional development and learners in Singapore mathematics classrooms Written by leading researchers with an intimate understanding of Singapore mathematics education this up to date book reports the latest trends in Singapore mathematics classrooms including mathematical modelling and problem solving in the real world context

Problem Posing and Solving for Mathematically Gifted and Interested Students Deniz Sarikaya, Lukas Baumanns, Karl Heuer, Benjamin Rott, 2023-09-29 Mathematics and mathematics education research have an ongoing interest in improving our understanding of mathematical problem posing and solving This book focuses on problem posing in a context of mathematical giftedness The contributions particularly address where such problems come from what properties they should have and which differences between school mathematics and more complex kinds of mathematics exist These perspectives are examined internationally allowing for cross national insights

Common Core Literacy for Math, Science, and Technical Subjects Katherine S. McKnight, 2014-10-13 Resources and guidance for the journey of Common Core implementation In this age of the Common Core State Standards all content area teachers must integrate literacy standards into their curriculum If you're like most content area educators you're feeling a bit overwhelmed at the thought of addressing all the new standards or you might just need a little extra help In this hands on resource Common Core literacy expert Katherine McKnight offers secondary teachers a clear understanding of what literacy looks like in math science and technical subjects McKnight gives educators proven teaching techniques that help develop literacy skills in students She also offers a wealth of practical strategies and ready to use activities that content area teachers can integrate seamlessly Included are Ideas for implementing the literacy requirements of the Common Core across content areas A selection of activities that support literacy skills and build content

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Common Core Math Standards to Life Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

Financial Empowerment in the African American Church Rev. Dr. Donna Taylor,2018-01-17 This work captures the historical and cultural context for financial literacy in the twenty first century in view of the Great Recession of 2008 to 2009

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