

GRADE 12 MATHEMATICAL LITERACY MARCH TEST

QUESTION 1

Jane calculated her total tax paid for the previous year. It came down to the following:

P.A.Y.E (Income Tax)	R54215,00
Estimated VAT on groceries	R 5454,20

1.1 What is a PAYE? (2)

1.2 What is a PAYE deduction? (2)

She further determined that she received tax rebates to the value of R5432,00.

1.3 What is a tax rebate? (2)

1.4 What is a tax rebate? (2)

1.5 What is a tax rebate? (2)

QUESTION 2

Use the tariff system below to answer the questions that follow:

Electricity residential	Tariff for 2023/24	Increase
	ck/Wh	
1 to 100 kWh	241,37	10,1%
101 to 400 kWh	282,47	10,1%
401 to 600 kWh	307,75	10,1%
600 kWh and more	331,76	10,1%

2.1 What is a tariff system? (2)

2.2 Determine the cost (in rands) of a consumer who uses 100 kWh of electricity. (2)

2.3 The consumer above, uses 400 kWh of electricity. Determine the increase in cost. (2)

2.4 How much more will the consumer pay for 600 kWh? (2)

2.5 Suggest ONE way in which the Schmidt family can save on their electricity bill. (2)

QUESTION 3

3.1 Tony needs to buy a laptop for school. He is looking at the following options:

Option 1	Option 2	Option 3
Cash: R5000,00	Hire Purchase: R354pm for 24 months with R2000 deposit	Hire Purchase: R202pm for 36 months with R2500 deposit

3.1.1 What is a cash purchase? (2)

3.1.2 What is a hire purchase? (2)

3.1.3 What is a deposit? (2)

3.2 In order to make money to fund his laptop, Tony decides to give swimming lessons in his neighbours' pool. His neighbour charges him R500 per month for using his pool. His other variable expenses add up to around R750 per month. Tony breaks even if he has seven swimming lessons per month.

3.2.1 Present the given information on a break-even analysis graph. (2)

3.2.2 Present the given information on a break-even analysis graph. (7)

3.3 Tony buys food and a coldrink at the school tuck shop. His options are:

Burger	Coke
Toasted Sandwich	Fanta
Hotdog	

3.3.1 Present the given information on a break-even analysis graph. (2)

3.3.2 What is the break-even point? (2)

3.3.3 How many colddrinks must Tony buy to break even? (2)

Maths Paper 2014 March Grade 12

Lingjun Ying



Maths Paper 2014 March Grade 12:

Bringing the 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

The Education Invasion Joy Pullmann, 2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

Effective Grading Practices for Secondary Teachers Dave Nagel, 2015-03-04 Enact innovative grading systems that more accurately describe student progress This book challenges traditional grading practices and provides alternatives that can have direct impact on student success By making subtle shifts toward standards based grading systems schools can reduce unnecessary course failures provide students and their families a more accurate picture of current progress and increase opportunities for success The author offers a range of grading reform strategies that are built from practical frameworks that are effective and simple to adapt Among the many strengths of this book are

Practical application of existing research and evidence base for effective secondary grading reforms A framework for schools and districts to apply and adapt failure prevention strategies such as early failure detection Amnesty Days and meaningful stipulated second chance opportunities for students to reach mastery Functional strategies and actions for shifting toward standards based referenced grading without entirely abandoning letter grades Countering resistance to change through a clearly articulated plan for conducting school wide and classroom level action research around the effectiveness of new or adjusted grading practices Informative and pragmatic this book is spot on with analysis of this elephant in the room issue Nagel uses both empathy and humor in getting to the heart of a process to generate real solutions while underscoring the ultimate need for teacher voice in any successful implementation He provides ready made strategies for real impactful change I m left hopeful that feedback will rule the day Bruce Potter Superintendent Berkshire UFSD Nagel offers an insightful and articulate voice to secondary improvement and alignment through grading practices His tried and true methods through working with real districts provides a starting place and examples for others to follow A must read for anyone serious about ensuring student engagement through meaningful feedback Debra K Howe Superintendent Tri Creek School Corporation

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

The End of Public Schools David W. Hursh,2015-10-16 The End of Public Schools analyzes the effect of foundations corporations and non governmental organizations on the rise of neoliberal principles in public education By first contextualizing the privatization of education within the context of a larger educational crisis and with particular emphasis on the Gates Foundation and influential state and national politicians it describes how specific policies that limit public control are advanced across all levels Informed by a thorough understanding of issues such as standardized testing teacher tenure and charter schools David Hursh provides a political and pedagogical critique of the current school reform movement as well details about the increasing resistance efforts on the part of parents teachers and the general public

Mathematics Strategies for Tier 1 and Tier 2 Interventions in a PLC at Work® Sarah Schuhl,Mona Toncheff,Jennifer Deinhart,Brian Buckhalter,2024-12-02 Discover how your collaborative team can ensure all students learn grade level mathematics during Tier 1 and Tier 2

instruction This valuable guide provides preK 12 teachers with ready to use tools and strategies to help students communicate using mathematical language and develop number sense conceptual understanding procedural fluency mathematical reasoning problem solving and more PreK 12 educators can use this book to Collaborate with teams to build a shared understanding of essential mathematics standards Ensure students learn grade level mathematics during Tier 1 and Tier 2 instruction Learn how to help students make connections to prior learning and why that matters Create opportunities for students to reason through problems with their peers Develop students number sense procedural fluency and other key mathematics skills Contents Introduction Part 1 A Culture of Learning Chapter 1 Work as a Collaborative Mathematics Team Focused on Student Learning Chapter 2 Build a Community of Learners Part 2 Mathematics Foundations Chapter 3 Teach Grade or Course Level Content Chapter 4 Connect to Prior Knowledge Chapter 5 Develop Number Sense Chapter 6 Focus on Problem Solving Chapter 7 Develop Procedural Fluency Part 3 Student Engagement Chapter 8 Communicate Using Mathematical Language Chapter 9 Grow Learning Through Student Discourse Chapter 10 Use Meaningful Feedback for Learning Chapter 11 Empower Learners Through Student Investment Epilogue Appendix A Data Analysis Protocols Appendix B Cognitive Demand Level Task Analysis Guide References and Resources Index

Math Instruction for Students with Learning Problems Susan Perry Gurganus, 2017-02-24 Math Instruction for Students with Learning Problems Second Edition provides a research based approach to mathematics instruction designed to build confidence and competence in pre and in service PreK 12 teachers This core textbook addresses teacher and student attitudes toward mathematics as well as language issues specific mathematics disabilities prior experiences and cognitive and metacognitive factors The material is rich with opportunities for class activities and field extensions and the second edition has been fully updated to reference both NCTM and CCSSM standards throughout the text and includes an entirely new chapter on measurement and data analysis

Arguing with Numbers James Wynn, G. Mitchell Reyes, 2021-04-15 As discrete fields of inquiry rhetoric and mathematics have long been considered antithetical to each other That is if mathematics explains or describes the phenomena it studies with certainty persuasion is not needed This volume calls into question the view that mathematics is free of rhetoric Through nine studies of the intersections between these two disciplines Arguing with Numbers shows that mathematics is in fact deeply rhetorical Using rhetoric as a lens to analyze mathematically based arguments in public policy political and economic theory and even literature the essays in this volume reveal how mathematics influences the values and beliefs with which we assess the world and make decisions and how our worldviews influence the kinds of mathematical instruments we construct and accept In addition contributors examine how concepts of rhetoric such as analogy and visuality have been employed in mathematical and scientific reasoning including in the theorems of mathematical physicists and the geometrical diagramming of natural scientists Challenging academic orthodoxy these scholars reject a math equals truth reduction in favor of a more constructivist theory of mathematics as dynamic evolving and powerfully persuasive By bringing

these disparate lines of inquiry into conversation with one another Arguing with Numbers provides inspiration to students established scholars and anyone inside or outside rhetorical studies who might be interested in exploring the intersections between the two disciplines In addition to the editors the contributors to this volume are Catherine Chaput Crystal Broch Colombini Nathan Crick Michael Dreher Jeanne Fahnestock Andrew C Jones Joseph Little and Edward Schiappa *Common Core Language Arts and Math, Grade 1* Spectrum,2014-02-03 Help first grade students master Common Core skills such as comparing two texts on the same topic understanding word roots solving word problems and more with Common Core Language Arts and Math for grade 1 Take the mystery out of the Common Core with these unique and timely Spectrum 128 page books These information packed resources for kindergarten through grade 6 provide an overview of the standards for each grade level along with practice activities for school success Includes explicit references to the standards on each practice page that will let parents know that activities provide direct support for skills being taught at school **Spectrum Language Arts and Math, Grade 1** Spectrum,2015-03-02 Spectrum R Language Arts and Math Common Core Edition for Grade 1 helps parents understand Common Core standards and helps students master essential Common Core skills Engaging practice pages and sturdy flash cards help students with long vowels sentences vocabulary place value telling time and more Spectrum R Language Arts and Math Common Core Edition helps take the mystery out of current academic standards for busy parents This unique resource for kindergarten to grade 5 provides easy to understand overviews of Common Core learning standards for each grade level Each title includes more than 100 skill building practice pages and more than 100 sturdy cut apart flash cards The handy cards make it easy to review important skills quickly at home or on the go You will find all of the focused standards based practice your child needs to succeed at school this year Count Girls In Karen Panetta,Katianne Williams,2018-08-01 Maybe you have a daughter who loves cooking soccer and musicals Maybe she s a social butterfly an athlete a fashionista and a humanitarian who wants to change the world Be honest do you think Well she s clearly not a math and science kid Do you assume that certain classes and careers won t appeal to her Count Girls In challenges these assumptions and presents a totally different way of thinking there is a place for all girls and young women not just the science fair winners and robotics club members in science technology engineering and math STEM fields if we can keep their and our minds and options open and meet them where they are To succeed in STEM fields today girls don t have to change who they are A girl who combines her natural talents interests and dreams with STEM skills has a greater shot than ever before at a career she loves and a salary she deserves Count Girls In encourages parents and other adults to raise authentic young women who have the confidence to put STEM to work in a way that best serves them and their passions The authors both STEM professionals present compelling research in a conversational accessible style and provide specific advice and takeaways for each stage of schooling from elementary school through college followed by comprehensive STEM resources This isn t a book about raising competitive test acing girls in lab coats this is about raising happy confident

girls who realize the world of opportunities before them

Validation of Score Meaning for the Next Generation of Assessments Kadriye Ercikan, James W. Pellegrino, 2017-03-27 Despite developments in research and practice on using examinee response process data in assessment design the use of such data in test validation is rare Validation of Score Meaning in the Next Generation of Assessments Using Response Processes highlights the importance of validity evidence based on response processes and provides guidance to measurement researchers and practitioners in creating and using such evidence as a regular part of the assessment validation process Response processes refer to approaches and behaviors of examinees when they interpret assessment situations and formulate and generate solutions as revealed through verbalizations eye movements response times or computer clicks Such response process data can provide information about the extent to which items and tasks engage examinees in the intended ways With contributions from the top researchers in the field of assessment this volume includes chapters that focus on methodological issues and on applications across multiple contexts of assessment interpretation and use In Part I of this book contributors discuss the framing of validity as an evidence based argument for the interpretation of the meaning of test scores the specifics of different methods of response process data collection and analysis and the use of response process data relative to issues of validation as highlighted in the joint standards on testing In Part II chapter authors offer examples that illustrate the use of response process data in assessment validation These cases are provided specifically to address issues related to the analysis and interpretation of performance on assessments of complex cognition assessments designed to inform classroom learning and instruction and assessments intended for students with varying cultural and linguistic backgrounds The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Playful STEAM Learning in the Early Years Amanda Sullivan, Amanda Strawhacker, Decades of research has shown that introducing STEM content like coding and engineering during the foundational early childhood years can lead to many benefits such as improving children's number sense problem solving skills and sequencing ability Unfortunately the costs of STEM technologies can be a barrier for many early childhood educators Additionally many digital tools and apps are not playful or developmentally appropriate for young learners and can be less inclusive of students who have been historically excluded from STEM This book addresses these barriers by demonstrating how to leverage an interdisciplinary STEAM Science Technology Engineering Arts and Mathematics approach to pique the curiosity of young students through play based learning The authors provide evidence based hands on approaches as well as a practical framework to effectively integrate STEAM learning in the early grades pre K to third grade Readers will explore new ways to play alongside their young learners to make powerful STEAM discoveries and foster a lifelong love of learning Book Features Provides tips and strategies rooted in existing frameworks and guidelines as well as the authors original research on the cognitive and socioemotional benefits of STEAM experiences Empowers early childhood educators working in any setting

informal formal or home settings Describes a new framework for the equitable design and implementation of play based STEAM learning in early childhood settings *Improving Teacher Knowledge in K-12 Schooling* Xiaoxia A. Newton,2018-03-15 This volume examines how several key components of the mathematics education system in the United States fail to provide teachers with adequate and effective tools to teach mathematics in K 12 classrooms These components consist of teachers own learning experiences as students in K 12 classrooms their undergraduate or graduate trainings in mathematics and their in service professional development trainings Newton argues that unless we improve these system components as a whole and recognize the importance of teaching future mathematics teachers explicitly and rigorously the topics they are expected to teach teachers will continue to recycle a body of incoherent and incomprehensible mathematical knowledge to their students because these are the only types of mathematical knowledge they have at their disposal both in terms of what they themselves have learned as K 12 students and in terms of the mathematical resources available to them including the textbooks they rely on to teach as mathematics teachers **Federal Register** ,2014 *A School Leader's Guide to Standards-Based Grading* Tammy Heflebower,Jan K. Hoegh,2014-05-30 Accurately report students academic strengths and weaknesses with standards based grading Rather than using traditional systems that incorporate nonacademic factors such as attendance and behavior learn to assess and report student performance based on prioritized standards You will discover reliable practical methods for analyzing what students have learned and gain effective strategies for offering students feedback on their progress *Teaching Mathematics Creatively* Linda Pound,Trisha Lee,2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom **Resources in Education** ,1998 *Mathematics Education* Jacqueline Dewar,Pao-sheng Hsu,Harriet Pollatsek,2016-11-26 Many in the mathematics community in the U S are involved in mathematics education in various capacities This book highlights the breadth of the work in K 16 mathematics education done by members of US departments of mathematical sciences It contains contributions by mathematicians and mathematics educators who do work in areas such

as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development

Helping Children Learn Mathematics Robert Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2014-10-20 The 11th Edition of Helping Children Learn Mathematics is designed to help those who are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M

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