

## 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 system? (2)

She further determined that she received tax rebates to the value of R5432,80.

1.3 What is a tax rebate? (2)

1.4 What is a tax rebate system? (2)

1.5 What is a tax rebate system? (2) [10]

### 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	15,1%
101 to 400 kWh	282,47	15,1%
401 to 600 kWh	307,75	15,1%
600 kWh and more	331,76	15,1%

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. (5)

2.4 How much more will the consumer pay for 600 kWh? (5)

2.5 Suggest ONE way in which the Schmidt family can save on their electricity bill. (2) [10]

### 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 Define hire purchase. (2)

3.1.2 Calculate the total cost of the laptop if Tony chooses Option 2. (2)

3.1.3 Calculate the total cost of the laptop if Tony chooses Option 3. (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 R550 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 Explain what a break-even analysis is. (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 information in a table and draw a break-even diagram. (3)

3.3.2 Calculate the cost of the food and coldrink if Tony buys the cheapest option. (3)

3.3.3 If Tony buys the food and coldrink for the cheapest option, how many times must he buy the food and coldrink to break even? (3) [10]

# March 2014 Mathematics Common Paper Grade 12

**L Towne**



## **March 2014 Mathematics Common Paper 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

**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 *Daily Graphic* Ransford Tetteh,2014-03-12 *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 *Arguing with Numbers* James Wynn,G. Mitchell Reyes,2021-05-14 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 *The Trials of Evidence-based Education* Stephen Gorard,Beng Huat See,Nadia Siddiqui,2017-06-26 *The Trials of Evidence based Education* explores the promise limitations and opportunities of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts The results and implications of over 20 studies conducted by the authors are combined with large number of studies from systematic reviews and their implications are spelled out for the research community policy makers schools wanting to run their own evaluations and practitioners using evidence in this well structured and thoughtful text *Spectrum Language Arts and Math, Grade 1* Spectrum,2015-03-02 *Spectrum 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 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

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

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

**POGIL** Shawn R. Simonson, 2023-07-03 Process

Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines. Beyond facilitating students' mastery of a discipline, it promotes vital educational outcomes such as communication skills and critical thinking. Its active international community of practitioners provides accessible educational development and support for anyone developing related courses. Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry, the POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success, develop curricular materials to assist this process, conduct research expanding what is known about learning and teaching, and provide professional development and collegiality from elementary teachers to college professors. As a pedagogy, it has been shown to be effective in a variety of content areas and at different educational levels. This is an introduction to the process and the community. Every POGIL classroom is different and is a reflection of the uniqueness of the particular context: the institution, department, physical space, student body, and instructor, but follows a common structure in which students work cooperatively in self-managed small groups of three or four. The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves, based entirely on data provided in class, not on prior reading of the textbook or other introduction to the topic. The learning environment is structured to support the development of process skills such as teamwork, effective communication, information processing, problem solving, and critical thinking. The instructor's role is to facilitate the development of student concepts and process skills, not to simply deliver content to the students. The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy. The second part of the book focuses on implementing POGIL, covering the formation and effective management of student teams, offering guidance on the selection and writing of POGIL activities, as well as on facilitation, teaching large classes, and assessment. The book concludes with examples of implementation in STEM and non-STEM disciplines, as well as guidance on how to get started. Appendices provide additional resources and information about the POGIL Project.

**International Handbook of Middle Level Education Theory, Research, and Policy** David C. Virtue, 2019-08-30. The International Handbook of Middle Level Education Theory, Research, and Policy is a landmark resource for researchers, graduate students, policy makers, and practitioners who work in middle level education and associated fields of study. The volume provides an overview of the current state of middle level education theory, research, and policy; offers analysis and critique of the extant literature in the field; and maps new directions for research and theory development in middle level education. The handbook meets a pressing need in the field for a resource that is comprehensive in its treatment of middle level research and international in scope. Chapter authors provide rationales for middle level education research and definitions of the field; discuss philosophical

approaches and underpinnings for middle level education research describe and critique frameworks for quality in middle level education review research about young adolescent learners middle level school programming and educator preparation and analyze public policies affecting middle level education at national regional and local levels      **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      **Common Sense about Common Core** Jim

Dueck, 2016-02-02 Common Sense about Common Core breaks down everything you need to know about the Common Core from how it was implemented to where we are now Common Core has emerged as a significant political issue and therefore a concern with the general public Special interest groups are spinning messages which are inaccurate or biased in order to confuse parents and the public Therefore a transformative educational initiative developed on sound principles is jeopardized because special interest groups including politicians seeking to garner support from these groups are taking positions based on inaccurate information This book will show that Common Core is a necessary initiative for achieving America's Race to the Top      *The Politics and Governance of Basic Education* Brian Levy, Robert Cameron, Ursula Hoadley, Vinodhan

Naidoo, 2018-09-05 This is an open access title available under the terms of a CC BY NC ND 4.0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations All over the world economic inclusion has risen to the top of the development discourse A well performing education system is central to achieving inclusive development but the challenge of improving educational outcomes has proven to be unexpectedly difficult Access to education has increased but quality remains low with weaknesses in governance comprising an important part of the explanation The Politics and Governance of Basic Education explores the balance between hierarchical and horizontal institutional arrangements for the public provision of basic education Using the vivid example of South Africa a country that had ambitious goals at the outset of its transition from apartheid to democracy it explores how the interaction of politics and institutions affects educational outcomes By examining lessons learned from how South Africa

failed to achieve many of its goals it constructs an innovative alternative strategy for making process combining practical steps to achieve incremental gains to re orient the system towards learning

Evaluation of the Achievement Levels for Mathematics and Reading on the National Assessment of Educational Progress National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Testing and Assessment, Committee on National Statistics, Committee on the Evaluation of NAEP Achievement Levels for Mathematics and Reading, 2017-05-12

Since 1969 the National Assessment of Educational Progress NAEP has been providing policymakers educators and the public with reports on academic performance and progress of the nation's students The assessment is given periodically in a variety of subjects mathematics reading writing science the arts civics economics geography U S history and technology and engineering literacy NAEP is given to representative samples of students across the U S to assess the educational progress of the nation as a whole Since 1992 NAEP results have been reported in relation to three achievement levels basic proficient and advanced However the use of achievement levels has provoked controversy and disagreement and evaluators have identified numerous concerns This publication evaluates the NAEP student achievement levels in reading and mathematics in grades 4 8 and 12 to determine whether the achievement levels are reasonable reliable valid and informative to the public and recommends ways that the setting and use of achievement levels can be improved

Large-Scale Studies in Mathematics Education James A. Middleton, Jinfa Cai, Stephen Hwang, 2015-05-05

In recent years funding agencies like the Institute of Educational Sciences and the National Science Foundation have increasingly emphasized large scale studies with experimental and quasi experimental designs looking for objective truths Educational researchers have recently begun to use large scale studies to understand what really works from developing interventions to validation studies of the intervention and then to efficacy studies and the final scale up for large implementation of an intervention Moreover modeling student learning developmentally taking into account cohort factors issues of socioeconomics local political context and the presence or absence of interventions requires the use of large data sets wherein these variables can be sampled adequately and inferences made Inroads in quantitative methods have been made in the psychometric and sociometric literatures but these methods are not yet common knowledge in the mathematics education community In fact currently there is no volume devoted to discussion of issues related to large scale studies and to report findings from them This volume is unique as it directly discusses methodological issue in large scale studies and reports empirical data from large scale studies

*Federal Register*, 2014

*Sick Schools* David V. Anderson, 2020-01-10

Who's afraid of for profit education Those who work in non profit or government owned and operated schools Many parents and other stakeholders have been made fearful by this education establishment What's more important to humans nutrition or education Nutrition is more important because it is the prerequisite for other human activities including education What organizations provide food and who pays for the food Food is provided by for profit farmers for profit processors for profit wholesalers and for profit retailers Most food is



purchased with the consumers own money but a significant amount is purchased by low income individuals using food stamps Why can t education be provided similarly using education stamps We trust for profit enterprises to provide our food Why can t we trust for profit enterprises to provide K 12 education Fearmongers have frightened us and made us into gullible compliant socialists who despise commercial activities in education Go to the supermarket and ponder its marvelous array of foods and then contemplate how a for profit K 12 education sector would please and amaze its customers Preparing Pre-Service Teachers for the Inclusive Classroom Dickenson, Patricia,Keough, Penelope,Courduff, Jennifer,2016-10-25 Teachers must be prepared to create an effective learning environment for both general education students and students with special needs This can be accomplished by equipping teachers with the proper knowledge and strategies Preparing Pre Service Teachers for the Inclusive Classroom discusses the latest approaches skills and methodologies on how to support special needs students Highlighting relevant perspectives on technology implementation curriculum development and instructional design this book is an ideal reference source for pre service teachers teacher educators researchers professionals and academics in the education field

## Decoding **March 2014 Mathematics Common Paper Grade 12**: Revealing the Captivating Potential of Verbal Expression

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