

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 R5432,80.

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	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 who uses 100 kWh of electricity has a 15,1% increase. (2)

2.4 How much more will the consumer pay for 100 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 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 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 a break-even point? (2)

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

Grade 12 Mathematics Paper March 2011

Jin-Ying Zhang



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Daily Graphic Ransford Tetteh, 2011-02-23 Public Papers of the Presidents of the United States United States. President, 2014 Containing the public messages speeches and statements of the President 1956 1992 *Public Papers of the Presidents of the United States, Barack Obama: January 1 to June 30, 2010* United States. President (2009-2017 : Obama), 2010 **Science** John Michels (Journalist), 2012 *Public Papers of the Presidents of the United States, George W. Bush* United States. President (2001-2009 : Bush), 2010 **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 **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 **Issues in Educational Science and Technology: 2012 Edition** , 2013-01-10 *Issues in Educational Science and Technology 2012 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Learning Science and Technology The editors have built *Issues in Educational Science and Technology 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Learning Science and Technology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Issues in Educational Science and Technology 2012 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More

information is available at <http://www.ScholarlyEditions.com> Equitable School Scheduling Cheryl Hibbeln, Lori Rhodes, 2024-11-05 To understand a school's values and priorities look at its schedule. When schedules do not meet the instructional needs of students, the result is a pipeline from PreK through grade 12 that leaks students an outcome disproportionately experienced by students of color and other marginalized student groups. This practical and thoughtful guide demonstrates how school and district scheduling teams can become Architects of Equity: highly effective teams who design schedules that reflect their commitment to student achievement and social emotional wellbeing. Including strategies to shift collective mindsets around scheduling, organize and support teaching teams, and ensure fiscal responsibility in scheduling. Equitable School Scheduling is a vital resource for secondary school leaders committed to dismantling systemic inequities inherent in school structures. Readers will learn how to self-assess site and/or district data through a deep examination of the course of study, site schedule's transcripts, and graduation cohort outcomes. Design and implement an Equitable Core: a guaranteed set of courses that all students experience as a part of a meaningful graduation. Prioritize underestimated and historically underserved students in the planning of the schedule. Equitable School Scheduling helps school and district administrators use scheduling as a tool to transform the leaky pipeline to graduation into a meaningful path to post-secondary success for all students. **Better Serving Teens through School Library-Public Library Collaborations**

Cherie P. Pandora, Stacey Hayman, 2013-08-15 In this practical guidebook, experienced librarians, a public librarian, and a school librarian share advice and ideas for extending resources, containing costs, and leveraging capabilities between school and public libraries, offering insights and strategies to overcome today's economic challenges. The current economic crisis has had a drastic impact on both public and school libraries. As budgets shrink, resources become scarcer, and the job of the librarian becomes harder. The conundrum of doing more with less challenges even the most seasoned professionals whose institutions face service cutbacks, disappointed patrons, and possible job eliminations or closures. This book asserts that a collaboration between school and public libraries can effectively serve the needs of two populations: teens and the community at large, while minimizing the cost to do so. Better Serving Teens through School Library-Public Library Collaborations offers thought-provoking advice and ideas for practical use in real-world libraries. The authors provide step-by-step guidance for those who wish to start, strengthen, or extend a partnership with colleagues at a sister library, covering topics ranging from teen advisory boards and collaborative programs to homework help and professional development. Veterans in the field as well as beginners can utilize the wealth of tools within, including worksheets, timelines, and checklists, to leverage the capabilities of other agencies to fortify both their own and their institutions' value.

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