

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)

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 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 system? (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 Explain the meaning of break-even analysis. (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 graph. (2)

3.3.2 How many cold drinks must Tony buy to break even? (2)

3.3.3 If Tony buys 10 cold drinks, how many burgers must he buy to break even? (2)

Mathematical Literacy Paper Memorandum

**Great Britain: Parliament: House of
Commons: Trade and Industry
Committee**

Mathematical Literacy Paper Memorandum:

Official Gazette of the United States Patent and Trademark Office ,2003 Freedom Is an Endless Meeting Francesca Polletta,2012-06-12 This excellent study of activist politics in the United States over the past century challenges the conventional wisdom about participatory democracy Times Literary Supplement Freedom Is an Endless Meeting offers vivid portraits of American experiments in participatory democracy throughout the twentieth century Drawing on meticulous research and more than one hundred interviews with activists Francesca Polletta upends the notion that participatory democracy is worthy in purpose but unworkable in practice Instead she shows that social movements have often used bottom up decision making as a powerful tool for political change Polletta traces the history of democracy from early labor struggles and pre World War II pacifism through the civil rights new left and women s liberation movements of the sixties and seventies and into today s faith based organizing and anti corporate globalization campaigns In the process she uncovers neglected sources of democratic inspiration such as Depression era labor educators and Mississippi voting registration workers as well as practical strategies of social protest Polletta also highlights the obstacles that arise when activists model their democracies after nonpolitical relationships such as friendship tutelage and religious fellowship She concludes with a call to forge new kinds of democratic relationships that balance trust with accountability respect with openness to disagreement and caring with inclusiveness For anyone concerned about the prospects for democracy in America Freedom Is an Endless Meeting will offer abundant historical theoretical and practical insights **Aaron Henry of Mississippi** Minion K. C. Morrison,2015-06-05 Winner of the 2016 Lillian Smith Book Award When Aaron Henry returned home to Mississippi from World War II service in 1946 he was part of wave of black servicemen who challenged the racial status quo He became a pharmacist through the GI Bill and as a prominent citizen he organized a hometown chapter of the NAACP and relatively quickly became leader of the state chapter From that launching pad he joined and helped lead an ensemble of activists who fundamentally challenged the system of segregation and the almost total exclusion of African Americans from the political structure These efforts were most clearly evident in his leadership of the integrated Mississippi Freedom Democratic Party delegation which after an unsuccessful effort to unseat the lily white Democratic delegation at the Democratic National Convention in 1964 won recognition from the national party in 1968 The man who the New York Times described as being at the forefront of every significant boycott sit in protest march rally voter registration drive and court case eventually became a rare example of a social movement leader who successfully moved into political office Aaron Henry of Mississippi covers the life of this remarkable leader from his humble beginnings in a sharecropping family to his election to the Mississippi house of representatives in 1979 all the while maintaining the social change ideology that prompted him to improve his native state and thereby the nation **Resources in Education** ,2001 *Second International Handbook of Mathematics Education* Alan Bishop,M.A. (Ken) Clements,Christine Keitel-Kreidt,Jeremy Kilpatrick,Frederick Koon-Shing

Leung,2012-02-02 ALAN 1 BISHOP The first International Handbook on Mathematics Education was published by Kluwer Academic Publishers in 1996 However most of the writing for that handbook was done in 1995 and generally reflected the main research and development foci prior to 1994 There were four sections 36 chapters and some 150 people contributed to the final volume either as author reviewer editor or critical friend The task was a monumental one attempting to cover the major research and practice developments in the international field of mathematics education as it appeared to the contributors in 1995 Inevitably there were certain omissions some developments were only starting to emerge and some literatures were only sketchy and speculative However that Handbook has had to be reprinted three times so it clearly fulfilled a need and I personally hope that it lived up to what I wrote in its Introduction The Handbook thus attempts not merely to present a description of the international state of the field but also to offer synthetic and reflective overviews on the different directions being taken by the field on the gaps existing in our present knowledge on the current problems being faced and on the future possibilities for development Bishop et al 1996 Since that time there has been even more activity in our field and now seems a good time to take stock again to reflect on what has happened since 1995 and to create a second Handbook with the same overall goals

Appendices to the Report of the New Jersey Board of Higher Education from the Advisory Committee to the College Outcomes Evaluation Program New Jersey. Advisory Committee to the College Outcomes Evaluation Program,1987 *General Education and the Development of Global Citizenship in Hong Kong, Taiwan and Mainland China* Jun Xing,2013 General Education has taken center stage in the greater China area Hong Kong Taiwan and mainland China because of a number of important developments First globalization has created both opportunities and challenges for college students When they graduate and enter the real world they must have the cultural sensitivities and social skills in addition to their professional training to compete in a knowledge based global economy Equally significant for institutions of higher education pressing global problems challenge traditional disciplines and demand new forms of learning that reshapes the boundaries of knowledge In response to those rapidly changing dynamics general education has taken an increasingly important role in undergraduate education As the first English publication on the subject this anthology brings together a distinguished group of General Education scholars and teachers from Hong Kong Taiwan and mainland China

Parliamentary Papers Great Britain. Parliament. House of Commons,1982 **Classroom Assessment Techniques** Thomas A. Angelo,Todd D. Zakrajsek,2024-06-26 Classroom Assessment Techniques Formative Feedback Tools for College and University Teachers A practical research based handbook for using assessment to improve learning This completely revised and updated third edition of Classroom Assessment Techniques provides a research based engaging guide to assessing student learning where it matters most at course and classroom levels Informed by the latest international educational research and 30 years of classroom assessment practice this practical handbook is designed for postsecondary teachers from all disciplines faculty and academic developers and assessment professionals It offers field

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Creating Life-Long Learners Todd Stanley,2015-07-30 Wanted for the global workforce thinkers and those who can teach them Where K 12 instruction once centered on content and memorization today s educators want most of all to teach their students to think critically and perceptively What better way than with project based learning PBL Author Todd Stanley provides a teacher friendly step by step approach to implementing PBL showing readers how to Use project and classroom management skills to create a positive productive learning environment Develop curriculum around ten different project types Link projects with today s standards Teach students how to effectively collaborate and bring out the best in each other Future of UK manufacturing Great Britain: Parliament: House of Commons: Trade and Industry Committee,2007-07-18 The public sector spends nearly GBP 125 billion or ten per cent of GDP each year purchasing goods and services in the UK economy This report focuses on whether the rules and practices relating to procurement of goods and services by public authorities hinder or help UK manufacturers in obtaining public contracts

Parameters ,1996 **Sessional Papers** Great Britain. Parliament. House of Commons,1985 **For a Voice and the Vote** Lisa Anderson Todd,2015-01-19 During the summer of 1964 hundreds of American college students descended on Mississippi to help the state s African American citizens register to vote Student organizers volunteers and community members canvassed black neighborhoods to organize the Mississippi Freedom Democratic Party MFDP a group that sought to give a voice to black Mississippians and demonstrate their will to vote in the face of terror and intimidation In For a Voice and the Vote author Lisa Anderson Todd gives a fascinating insider s account of her experience volunteering in Greenville Mississippi during Freedom Summer when she participated in organizing the MFDP Innovative and integrated the party provided political education ran candidates for office and offered participation in local and statewide meetings for blacks who

were denied the vote For Todd it was an exciting dangerous and life changing experience Offering the first full account of the group s five days in Atlantic City the book draws on primary sources oral histories and the author s personal interviews of individuals who were supporters of the MFDP in 1964 *Biomedical Computing* Joseph A. November,2012-06-01 Winner of the Computer History Museum Prize of the Special Interest Group Computers Information and Society Imagine biology and medicine today without computers What would laboratory work be like if electronic databases and statistical software did not exist Would disciplines like genomics even be feasible if we lacked the means to manage and manipulate huge volumes of digital data How would patients fare in a world absent CT scans programmable pacemakers and computerized medical records Today computers are a critical component of almost all research in biology and medicine Yet just fifty years ago the study of life was by far the least digitized field of science its living subject matter thought too complex and dynamic to be meaningfully analyzed by logic driven computers In this long overdue study historian Joseph November explores the early attempts in the 1950s and 1960s to computerize biomedical research in the United States Computers and biomedical research are now so intimately connected that it is difficult to imagine when such critical work was offline *Biomedical Computing* transports readers back to such a time and investigates how computers first appeared in the research lab and doctor s office November examines the conditions that made possible the computerization of biology including strong technological institutional and political support from the National Institutes of Health and shows not only how digital technology transformed the life sciences but also how the intersection of the two led to important developments in computer architecture and software design The history of this phenomenon has been only vaguely understood November s thoroughly researched and lively study makes clear for readers the motives behind computerizing the study of life and how that technology profoundly affects biomedical research today *An Age of Accountability* John L. Rury,2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of change embedded in almost all test based accountability programs held that assessment with stipulated consequences could lead to major improvements in schools This was accomplished politically by proclaiming lofty goals of attaining universal proficiency and closing achievement gaps which repeatedly failed to materialize But even after very clear disappointments no other policy framework has emerged to challenge its hegemony The American public today has little confidence in institutions to improve the quality of goods and services they provide especially in the public sector As a consequence many Americans continue to believe that accountability remains a vital necessity even if educators and policy scholars disagree Microcomputers and Education Jack Culbertson,Luvern L. Cunningham,1986-04 The Eighty Fifth Yearbook of the National Society for the Study of Education Part I **Assessment and Teaching of 21st Century Skills** Patrick Griffin,Barry McGaw,Esther Care,2011-10-20 Rapid

and seemingly accelerating changes in the economies of developed nations are having a proportional effect on the skill sets required of workers in many new jobs Work environments are often technology heavy while problems are frequently ill defined and tackled by multidisciplinary teams This book contains insights based on research conducted as part of a major international project supported by Cisco Intel and Microsoft It faces these new working environments head on delineating new ways of thinking about 21st century skills and including operational definitions of those skills The authors focus too on fresh approaches to educational assessment and present methodological and technological solutions to the barriers that hinder ICT based assessments of these skills whether in large scale surveys or classrooms Equally committed to defining its terms and providing practical solutions and including international perspectives and comparative evaluations of assessment methodology and policy this volume tackles an issue at the top of most educationalists agendas

Creating Reading

Instruction for All Children Thomas G. Gunning, 1996 This book will not tell you how to teach reading Teaching reading is in large measure a matter of making choices Should you use basal readers or children s books or both Should you teach children to read whole words or to sound out words letter by letter or both Should you have three reading groups or four or no groups There are no right answers to these questions The answers depend on your personal philosophy your interpretation of the research the level at which you are teaching the kinds of students you are teaching community preferences and the nature of your school or school district s reading program

Oxford Handbook of Numerical Cognition

Roi Cohen Kadosh, Ann Dowker, 2015-07-30 How do we understand numbers Do animals and babies have numerical abilities Why do some people fail to grasp numbers and how we can improve numerical understanding Numbers are vital to so many areas of life in science economics sports education and many aspects of everyday life from infancy onwards Numerical cognition is a vibrant area that brings together scientists from different and diverse research areas e g neuropsychology cognitive psychology developmental psychology comparative psychology anthropology education and neuroscience using different methodological approaches e g behavioral studies of healthy children and adults and of patients electrophysiology and brain imaging studies in humans single cell neurophysiology in non human primates habituation studies in human infants and animals and computer modeling While the study of numerical cognition had been relatively neglected for a long time during the last decade there has been an explosion of studies and new findings This has resulted in an enormous advance in our understanding of the neural and cognitive mechanisms of numerical cognition In addition there has recently been increasing interest and concern about pupils mathematical achievement in many countries resulting in attempts to use research to guide mathematics instruction in schools and to develop interventions for children with mathematical difficulties This handbook brings together the different research areas that make up the field of numerical cognition in one comprehensive and authoritative volume The chapters provide a broad and extensive review that is written in an accessible form for scholars and students as well as educationalists clinicians and policy makers The book covers the most important

aspects of research on numerical cognition from the areas of development psychology cognitive psychology neuropsychology and rehabilitation learning disabilities human and animal cognition and neuroscience computational modeling education and individual differences and philosophy Containing more than 60 chapters by leading specialists in their fields the Oxford Handbook of Numerical Cognition is a state of the art review of the current literature

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