



## GRADE 11 MATHEMATICAL LITERACY TERM 3 TEST

### QUESTION 1

17 MARKS

Mark wants to build a loft for his daughter. See the plan on Annexure A to answer the questions that follow.

- 1.1 Is the plan shown on Annexure A, an elevation or floorplan? (2)
- 1.2 How many doors are visible on the map? (2)
- 1.3 What is represented by the lines A – D? (2)
- 1.4 In what direction does the balcony face? (2)
- 1.5 Determine the area of the balcony if it is 10% of the total 64m<sup>2</sup> area. (2)
- 1.6 If they get a quote of R70500, determine the price per square meter. (2)
- 1.7 Draw 2 x elevations (West, South) of the loft from the same angle with a scale of 1:1,5m  
Assume the loft is on top of a garage with no windows. (6)

### QUESTION 2

21 MARKS

Jesse is saving up for the holidays. She decides to sell brownies at the local farmer's market every Saturday. The amounts indicated below will yield 105 brownies and she decides to sell them for R7,00 a piece.

Cocoa	R102,50
Butter	R46,80
Sugar	R38,20
Eggs	R66,60

- 2.1 Give TWO ideas on how Jesse can promote brownie sales. (2)
- 2.2 What does it mean to break even? (2)
- 2.3 She determines that other expenses will add up to about R80,00. Determine how many brownies she should sell to break even. (5)
- 2.4 Indicate your results for Question 2.3 on a graph. (2)
- 2.5 Is R7,00 an appropriate selling price? Give a reason for your answer. (2)
- 2.6 She sells 50 brownies every Saturday for 8 weeks for R8,30 a piece. Determine her income. (2)
- 2.7 She calculates that one brownie costs her R6,20 to produce. What is her profit margin? (2)
- 2.8 To fund this project, Jesse borrowed R1000,00 from her dad with a 2% interest rate. Determine the amount she must repay him. (2)

### QUESTION 3

12 MARKS

- 3.1 Mr Johnson invests money in a fixed deposit account. He invests R2000 at an interest rate of 7,8% year. Use the table below to calculate how much his investment would be worth on 30 April if he made the investment on 15 January.

Month	No. of Days	Opening balance	Daily interest	Monthly interest	Closing balance
Jan					
Feb					
March					
April					

(6)

- 3.2 Mr Johnson wants to renew his cellphone contract and considers the following options.

Option A: Fixed monthly amount of R400 for 100min and 5000MB data	Option B: Monthly fee of R28, and a tariff of R1,30 per minute and R0,80 per 25MB	Option C: Monthly fee of R34, and a tariff of R0,99 per minute and R0,75 per 25MB	Option D: Monthly fee of R390 for 150 minutes and 5000MB. Extra minutes at a tariff of R1,45 per minute
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# Mathematical Literacy Question Paper September 2013

**Diane P. Bryant, Deborah D.  
Smith, Brian R. Bryant**



## **Mathematical Literacy Question Paper September 2013:**

STEM Education: An Emerging Field of Inquiry ,2018-11-01 The second decade of the 21st century has seen governments and industry globally intensify their focus on the role of science technology engineering and mathematics STEM as a vehicle for future economic prosperity Economic opportunities for new industries that are emerging from technological advances such as those emerging from the field of artificial intelligence also require greater capabilities in science mathematics engineering and technologies In response to such opportunities and challenges government policies that position STEM as a critical driver of economic prosperity have burgeoned in recent years Common to all these policies are consistent messages that STEM related industries are the key to future international competitiveness productivity and economic prosperity This book presents a contemporary focus on significant issues in STEM teaching learning and research that are valuable in preparing students for a digital 21st century The book chapters cover a wide spectrum of issues and topics using a wealth of research methodologies and methods ranging from STEM definitions to virtual reality in the classroom multiplicative thinking STEM in pre school primary secondary and tertiary education opportunities and obstacles in STEM inquiry based learning in statistics values in STEM education and building academic leadership in STEM The book is an important representation of some of the work currently being done by research active academics It will appeal to academics researchers teacher educators educational administrators teachers and anyone interested in contemporary STEM Education related research in a rapidly changing globally interconnected world Contributors are Natalie Banks Anastasios Tasos Barkatsas Amanda Berry Lisa Borgerding Nicky Carr Io Keong Cheong Grant Cooper Jan van Driel Jennifer Earle Susan Fraser Noleine Fitzallen Tricia Forrester Helen Georgiou Andrew Gilbert Ineke Henze Linda Hobbs Sarah Howard Sylvia Sao Leng Jeong Chunlian Jiang Kathy Jordan Belinda Kennedy Zsolt Lavicza Tricia McLaughlin Wendy Nielsen Shalveena Prasad Theodosia Prodromou Wee Tiong Seah Dianne Siemon Li Ping Thong Tessa E Vossen and Marc J de Vries

**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

### **Numeracy Across the Curriculum**

Merrilyn Goos,Vince Geiger,Shelley Dole,Helen Forgasz,Anne Bennison,2020-07-16 Being numerate involves more than mastering basic mathematics Numeracy connects the mathematics learned at school with out of school situations that require capabilities such as problem solving critical judgment and sense making related to non mathematical contexts This book provides prospective and practising teachers with practical research based strategies for embedding numeracy across the primary and secondary school curriculum Based on the authors ten year research program the text explains what numeracy is and how numeracy has developed as an educational goal It describes in detail the five dimensions of the authors model attention to real life contexts application of mathematical knowledge use of physical representational and digital tools the promotion of positive dispositions towards the use of mathematics to solve problems encountered in day to day life and a critical orientation to interpreting mathematical results and making evidence based judgements There is guidance on how to embed numeracy across all subjects within the curriculum how to assess numeracy learning and how to deal with challenges and dilemmas including working with discipline boundaries and developing support resources Featuring practical examples and case studies throughout this book will build pre service teacher confidence demystify common misconceptions and grounds theory into practice in this vital area of student competency The authors of this text are recognised authorities on numeracy They have engaged heavily in numeracy research over many years and this text reflects the depth of their understanding and knowledge Geoff Hilton University of Queensland

**Handbook of Research on Digital Tools for Writing Instruction in K-12 Settings** Anderson, Rebecca S.,Mims, Clif,2014-04-30 More emphasis is being placed on writing instruction in K 12 schools than ever before With the growing number of digital tools in the classroom it is important that K 12 teachers learn how to use these tools to effectively teach writing in all content areas The Handbook of Research on Digital Tools for Writing Instruction in K 12 Settings will provide research about how students use digital tools to write both in and out of school settings as well as discuss issues and concerns related to the use of these learning methods This publication is beneficial to educators professionals and researchers working in the field of K 12 and teacher education

**Qualitative Research in STEM** Sherry Marx,2016-07-01 Qualitative Research in STEM examines the groundbreaking potential of qualitative research methods to address issues of social justice equity and sustainability in STEM A collection of empirical studies conducted by prominent STEM researchers this book examines the experiences and challenges faced by traditionally marginalized groups in STEM most notably culturally and linguistically diverse students and women Investigations into these issues as well as the high dropout rate among engineering students and issues of academic integrity

in STEM come with detailed explanations of the study methodologies used in each case Contributors also provide personal narratives that share their perspectives on the benefits of qualitative research methodologies for the topics explored Through a variety of qualitative methodologies including participatory action research Indigenous research and critical ethnography this volume aims to reveal and remedy the inequalities within STEM education today **The Connection Between**

**Mathematical and Reading Abilities and Disabilities** Shelley Shaul,Joanna Christodoulou,Maria T. Sikkema-de Jong,2022-05-03 **Teaching Students With Special Needs in Inclusive Classrooms** Diane P. Bryant,Brian R.

Bryant,Deborah D. Smith,2019-03-05 Inspire and equip current and future classroom teachers to ADAPT to the needs of all students Teaching Students with Special Needs in Inclusive Classrooms uses the research validated ADAPT framework Ask Determine Analyze Propose Test to help teachers determine how when and with whom to use proven academic and behavioral interventions to obtain the best outcomes for students with disabilities Through clear language and practical examples authors Diane P Bryant Brian R Bryant and Deborah D Smith show how to create truly inclusive classrooms through evidence based practices and hands on strategies The Second Edition includes strategically reorganized chapters a new chapter devoted to differentiated instruction and new classroom footage and teacher interviews illustrating how readers can implement the strategies discussed in their own classrooms With the help of this supportive guide educators will be inspired to teach students with disabilities in inclusive settings and be properly equipped to do so effectively A Complete Teaching Learning Package SAGE Premium Video Included in the interactive eBook SAGE Premium Video tools and resources boost comprehension and bolster analysis Interactive eBook Your students save when you bundle the print version with the Interactive eBook Bundle ISBN 978 1 5443 7037 8 which includes access to SAGE Premium Video and other multimedia tools SAGE coursepacks SAGE coursepacks makes it easy to import our quality instructor and student resource content into your school s learning management system LMS Intuitive and simple to use SAGE coursepacks allows you to customize course content to meet your students needs SAGE edge This companion website offers both instructors and students a robust online environment with an impressive array of teaching and learning resources Teaching in Inclusive

Classrooms Diane P. Bryant,Deborah D. Smith,Brian R. Bryant,2024-02-20 Teaching in Inclusive Classrooms guides educators through inclusive education using the ADAPT framework Packed with practical examples evidence based practices and hands on strategies the Third Edition empowers educators to effectively teach students with disabilities in inclusive environments **Touch Screen Tablets Touching Children's Lives** Joanne Tarasuik,Gabrielle Strouse,Jordy

Kaufman,2018-02-28 Touch screen tablets have greatly expanded the technology accessible to preschoolers toddlers and even infants given that they do not require the fine motor skills required for using traditional computers Many parents and educators wish to make evidence based decisions regarding young children s technology use yet technological advancements continue to occur faster than researchers can keep up with Accordingly despite touch screen tablets entering society more

than 5 years ago we are in the infancy of research concerning interactive media and children The topic has gained traction in the past couple of years For example theoretical papers have discussed how interactive media activities differ from physical toys and passive media Christakis 2014 and how educational apps development should utilise the four pillars of learning Hirsh Pasek et al 2015 Yet there has been little experimental research published on young children and touch screen use  
California Agriculture ,2013      *Forthcoming Books* Rose Arny,1995-02

## **Mathematical Literacy Question Paper September 2013** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mathematical Literacy Question Paper September 2013**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Mathematical Literacy Question Paper September 2013**

1. Understanding the eBook Mathematical Literacy Question Paper September 2013
  - The Rise of Digital Reading Mathematical Literacy Question Paper September 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Literacy Question Paper September 2013
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mathematical Literacy Question Paper September 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Literacy Question Paper September 2013
  - Personalized Recommendations
  - Mathematical Literacy Question Paper September 2013 User Reviews and Ratings
  - Mathematical Literacy Question Paper September 2013 and Bestseller Lists

5. Accessing Mathematical Literacy Question Paper September 2013 Free and Paid eBooks
  - Mathematical Literacy Question Paper September 2013 Public Domain eBooks
  - Mathematical Literacy Question Paper September 2013 eBook Subscription Services
  - Mathematical Literacy Question Paper September 2013 Budget-Friendly Options
6. Navigating Mathematical Literacy Question Paper September 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Mathematical Literacy Question Paper September 2013 Compatibility with Devices
  - Mathematical Literacy Question Paper September 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mathematical Literacy Question Paper September 2013
  - Highlighting and Note-Taking Mathematical Literacy Question Paper September 2013
  - Interactive Elements Mathematical Literacy Question Paper September 2013
8. Staying Engaged with Mathematical Literacy Question Paper September 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mathematical Literacy Question Paper September 2013
9. Balancing eBooks and Physical Books Mathematical Literacy Question Paper September 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mathematical Literacy Question Paper September 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Literacy Question Paper September 2013
  - Setting Reading Goals Mathematical Literacy Question Paper September 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Literacy Question Paper September 2013
  - Fact-Checking eBook Content of Mathematical Literacy Question Paper September 2013
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning



- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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*erkeklerde hpv belirtileri nelerdir evren ışık köşe yazısı* - Feb 24 2022

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**hpv aşısı nedir ne zaman yapılmalı hpv aşısının yan etkisi** - Dec 05 2022

web aug 29 2023 hpv aşısı cinsel yollarla bulaşan bir enfeksiyon olup insan papilloma virüsüne yani hpv ye karşı uzun senelerden beri uygulanan bir korunma metodudur hpv virüsü penis makat vulva ya da gırtlak kanserine neden olabilen diğer çeşitleri de vardır hpv aşısı bütün bu hpv virüsü çeşitlerine karşı korunmaya destek olur

**hpv boşanmaların yeni sorumlusu hpv nasıl anlaşılır habertürk** - Mar 28 2022

web oct 23 2018 hpv olanların yüzde 15 inin kondom kullandığı ancak koruyucu olmadığı sonucuna varılmıştır kuluçka süresi İnkübasyon süresi 2 hafta ile 2 yıl arasında değişmektedir

**human papillomavirus infection wikipedia** - May 30 2022

web an hpv infection is caused by the human papillomavirus a dna virus from the papillomavirus family 8 over 200 types have been described 9 an individual can become infected with more than one type of hpv 10 and the

**common types of human papillomavirus hpv healthline** - Nov 23 2021

web dec 13 2018 hpv 6 and hpv 11 are the both low risk various vaccines are available to protect you against certain types human papillomavirus hpv is a sexually transmitted infection sti also referred to

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rki rki ratgeber humane papillomviren - Oct 23 2021

web jun 28 2018 in hpv bedingten karzinomen lässt sich mehrheitlich dna des hochrisiko hpv typs 16 nachweisen unter den niedrigrisiko hpv typen spielen die typen 6 und 11 die genitalwarzen auslösen können die wichtigste rolle vorkommen hpv treten weltweit sowohl bei frauen als auch bei männern auf

**İnsan papilloma virüsü hpv nedir nasıl bulaşır** - Jan 06 2023

web may 18 2021 İnsan papilloma virüsü hpv mikroskopik parçacıklardır esas olarak genetik materyalden ve koruyucu bir protein kabuğundan oluşurlar ve kendi metabolizmalarına sahip değildirler

hpv ursachen prognose behandlung netdoktor at - Dec 25 2021

web may 2 2022 eine hpv infektion ist nur im falle von genitalwarzen feigwarzen oder karzinomen bösartigen gewebe veränderungen behandelbar für die reine infektion mit hpv gibt es keine medikamente es dauert also oft einige zeit bis man das virus wieder loswird dementsprechend ist eine hpv infektion auch relativ lange ansteckend

**hpv virüsü nedir İşte hpv human papillomavirus belirtileri ve** - Jun 30 2022

web apr 25 2018 her yıl abd de 19 400 kadın ve 12 100 erkek hpv den kaynaklanan kanserlerden etkilenmektedir hpv aşıları

enfeksiyona karşı korumada yardımcıdır hpv hakkında bazı gerÇekler

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web hpv insanlarda oldukça yaygın olarak bulunan ve çoğu kişide bir soruna yol açmasa da bazı kişilerde genital siğil ve kansere sebep olabilen virüsün adıdır hpv virüsü cildi etkiler hpv nin birçok tipi ağzı boğazı ve genital bölgeyi

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hpv infection symptoms causes mayo clinic - Apr 28 2022

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web erkeklerde 9 25 yaş arası olanlar aşılabilir hpv aşıları hpv ile ilişkili servikal displazi neoplazi servikal kanser genital siğiller condyloma acuminata ve prekanseröz anogenital lezyonlardan korunma amacıyla uygulanır aşılama

hpv virüsü nedir nasıl bulaşır tedavi yöntemleri nelerdir - Apr 09 2023

web mar 4 2020 hpv bir virüstür kadınlarda en sık görülen cinsel yolla bulaşan bir enfeksiyon nedenidir 200 den fazla farklı tipi vardır vücuttaki hücrelere yerleşip uzun süre sessiz kalabilir zamanla da genital siğiller ya da rahim ağzı

**hpv aşısı rahim ağzı kanserine karşı nasıl koruma bbc** - Mar 08 2023

web nov 5 2021 son araştırmalar hpv human papillomavirus aşısının rahim ağzı kanserini yüzde 90 a yakın bir oranda önlediğini gösterdi

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web dec 27 2022 hpv tedavisi nasıl yapılır erkekler için kondilom tedavisinde kullanılan en başarılı yöntem yakma yöntemidir diğer tedavi seçenekleri ise ile koterizasyon lrrp ya da lazer ile yakmadır

**genital siğiller hpv kondilom belirtiler ve tedavisi acıbadem** - May 10 2023

web feb 13 2019 hpv nin genital bölgede siğil oluşumuna neden olabilen hpv tipleri kansere yol açabilen tiplerle aynı değil diğer tipleri ise penis anüs ve ağız içi boğaz kanserlerine yol açabiliyor bununla birlikte virüs penil anal ve baş ve boyun gibi nadir görülen kanserler ile bağlantılı olduğundan hpv nin önlenmesi hala

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