



Summaries SA

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Gr. 10 Mathematical Literacy

Term 2 - 2024

Paper 2

Total: 50 marks

Time: 1 hour

Learner's name: _____ Gr. 10: _____

Instructions and information:

- This question paper consists of two questions, answer both questions.
- The use of a calculator is not allowed.
- No Tip - Ex may be used.
- Show all the steps that were required in order to get to the answer.
- Good luck!

QUESTION	TOPIC	TOTAL
1	Finances	20
2	Distance / Temperature and volume	15
3	Map work	15
TOTAL		50

QUESTION 1

Sara is an aspiring chef who dreams of opening her own bakery. She recently graduated from culinary school and has saved up some money to start her business. Sara has found the perfect spot for her bakery but needs to calculate the costs involved in setting it up.

- 1.1 The rent for the bakery space is R 5 500 per month. If Sara plans to rent the space for one year and 6 months, how much will she spend on rent in total? (2)
- 1.2 Sara needs to purchase baking equipment, including an oven, mixer, and refrigerator, which costs a total of R 6 800. If she plans to pay 30% of the total cost upfront as a deposit and finance the remaining amount with a loan.
- 1.2.1) How much money does she need to pay initially with the 30%? (7)
- 1.2.2) Calculate the total cost of the baking equipment if the amount after the deposit needs to be paid back over two years at 1% simple interest. (3)
- 1.3 Sara plans to hire two assistant bakers to help with baking and customer service. If each assistant earns R 75 per hour and works 40 hours per week, how much will Sara spend on labor costs per month? (3)
- 1.4 To attract customers, Sara plans to offer a variety of baked goods, including cakes, pastries, and bread. If she estimates that the cost of ingredients for each item is as follows: R95 for a cake, R18 for pastries, and R22 for bread, and she wants to maintain a 30% profit margin on each item, what should Sara price each item to ensure a profit? (5)

Redraw the following table to answer question 1.4

Item	Original price	New Price
Cake	R 95	
Pastries	R 18	
Bread	R 22	

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Literacy as Numbers Teacher's Book Mary Hamilton, Bryan Maddox, Camilla Addey, 2015-03-05 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education

Code as Creative Medium Golan Levin, Tega Brain, 2021-02-02 An essential guide for teaching and learning computational art and design exercises assignments interviews and more than 170 illustrations of creative work This book is an essential resource for art educators and practitioners who want to explore code as a creative medium and serves as a guide for computer scientists transitioning from STEM to STEAM in their syllabi or practice It provides a collection of classic creative coding prompts and assignments accompanied by annotated examples of both classic and contemporary projects and more than 170 illustrations of creative work and features a set of interviews with leading educators Picking up where standard programming guides leave off the authors highlight alternative programming pedagogies suitable for the art and design oriented classroom including teaching approaches resources and community support structures

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

Big Data John Storm Pedersen, Adrian Wilkinson, 2019 Promise Application and Pitfalls

10 to 25 David Yeager, 2024-08-06 NATIONAL BESTSELLER Acclaimed developmental psychologist David Yeager reveals the new science of motivating young people ages ten through twenty five in this groundbreaking book that is a must read for managers parents educators coaches and mentors everywhere Ambitious and revelatory 10 to 25 offers baffled adults new approaches and possibly new hope during some of their families most difficult years The Wall Street Journal Required reading for anyone who aspires to be a wise influence on the young people they care about Angela Duckworth One of the most fascinating and important books of the past decade It will change millions of lives Carol Dweck This engaging data driven book is filled with practical insights Adam Grant Imagine a world in which Gen Xers millennials and boomers interact with young people in ways that leave them feeling

inspired enthusiastic and ready to contribute rather than disengaged outraged or overwhelmed That world may be closer than you think In this book based on cutting edge research psychologist David Yeager explains how to stop fearing young people s brains and hormones and start harnessing them Neuroscientists have discovered that around age ten puberty spurs the brain to crave socially rewarding experiences such as pride admiration and respect and to become highly averse to social pain such as humiliation or shame As a result young people are subtly reading between the lines of everything we say trying to interpret the hidden implications of our words to find out if we are disrespecting or honoring them Surprisingly this sensitivity to status and respect continues into the mid twenties 10 to 25 helps adults develop an ear for the difference between the right and wrong way to respect young people and avoid frustrating patterns of miscommunication and conflict Yeager explains how to adopt what he terms the mentor mindset which is a leadership style that s attuned to young people s need for status and respect Anyone can adopt the mentor mindset by following a few highly effective and easy to learn practices such as validating young people s perspectives rather than dismissing them asking them questions rather than telling them what to do being transparent about your beliefs and goals rather than assuming that they will accurately guess your thoughts and holding them to high standards rather than coddling them Yeager s scientific experiments have shown these practices reduce a wide variety of behavior problems including school dropout unhealthy eating stress purposelessness mental health problems and more One of the biggest misconceptions about mentoring is that it takes up too much time On the contrary those who use the mentor mindset end up with more time Through back and forth conversations young people feel empowered and managers can transfer responsibility to them Young people in this age group are poised to learn grow and accomplish incredible things if only we can tap into the basic neurobiological systems that drive their motivation and behavior An essential read for anyone who interacts with young people 10 to 25 is a groundbreaking book that offers long term strategies to help nurture well adjusted independent accomplished young people who contribute to society in positive ways all while making our own lives easier

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Research, University of California, Berkeley, 1972 **Forthcoming Books** Rose Arny, 1996-06 *Dictionary of International Biography*, 1982 A biographical record of contemporary achievement together with a key to the location of the original biographical notes Government Reports Announcements & Index, 1983-10 International Books in Print, 1990
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