

**SECTION A****QUESTION 1**(a) Solve for  $x$ :

$$(1) \quad (x+2)^2 = 3x(x-2) \quad (5)$$

giving your answers correct to one decimal digit.

$$(2) \quad x^2 - 9x \geq 36. \quad (4)$$

$$(3) \quad 3^x - 3^{x-2} = 72. \quad (4)$$

(b) Given:  $(2m - 3)(n + 5) = 0$ .

Solve for:

$$(1) \quad n \text{ if } m = 1. \quad (1)$$

$$(2) \quad m \text{ if } n \neq -5. \quad (1)$$

$$(3) \quad m \text{ if } n = -5. \quad (2)$$

**[17]****QUESTION 2**

$$(a) \quad \text{Evaluate:} \quad \sum_{k=2}^6 \frac{2^{k-1}}{k}. \quad (3)$$

(b) The number of members of a new social networking site doubles every day. On day 1 there were 27 members and on day 2 there were 54 members.

$$(1) \quad \text{Calculate the number of members there were on day 12.} \quad (2)$$

$$(2) \quad \text{The site earns half a cent per member per day. Calculate the amount of money that the site earned in the first 12 days.} \quad (4)$$

Give your answer to the nearest Rand.

(c) Gina plans to start a fitness programme by going for a run each Sunday. On the first Sunday she runs 1 km and plans to increase the distance by 750 m each Sunday. When Gina reaches 10 km, she will continue to run 10 km each Sunday thereafter.



$$(1) \quad \text{Calculate the distance that Gina will run on the 9<sup>th</sup> Sunday.} \quad (3)$$

$$(2) \quad \text{Determine on which Sunday Gina will first run 10 km.} \quad (2)$$

$$(3) \quad \text{Calculate the total distance that Gina will run over the first 24 Sundays.} \quad (4)$$

**[18]**

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**Schools Council (Great Britain)**



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## **Table of Contents 2013 Maths Exam Papers**

1. Understanding the eBook 2013 Maths Exam Papers
  - The Rise of Digital Reading 2013 Maths Exam Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Maths Exam Papers
  - 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 2013 Maths Exam Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Maths Exam Papers
  - Personalized Recommendations
  - 2013 Maths Exam Papers User Reviews and Ratings
  - 2013 Maths Exam Papers and Bestseller Lists
5. Accessing 2013 Maths Exam Papers Free and Paid eBooks
  - 2013 Maths Exam Papers Public Domain eBooks
  - 2013 Maths Exam Papers eBook Subscription Services

- 2013 Maths Exam Papers Budget-Friendly Options
- 6. Navigating 2013 Maths Exam Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - 2013 Maths Exam Papers Compatibility with Devices
  - 2013 Maths Exam Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 2013 Maths Exam Papers
  - Highlighting and Note-Taking 2013 Maths Exam Papers
  - Interactive Elements 2013 Maths Exam Papers
- 8. Staying Engaged with 2013 Maths Exam Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 2013 Maths Exam Papers
- 9. Balancing eBooks and Physical Books 2013 Maths Exam Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 2013 Maths Exam Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 Maths Exam Papers
  - Setting Reading Goals 2013 Maths Exam Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 Maths Exam Papers
  - Fact-Checking eBook Content of 2013 Maths Exam Papers
  - 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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