

MATHEMATICS N2 CLASS EXERCISE 1

QUESTION 1

1.1 Solve the following equations:

1.1.1 $-x^2 + 3x - 2 = 0$ by factorisation (3)

1.1.2 $6(2 - m) - 5(4 - m) = 7$ (3)

1.2 Given: the formula $p = \sqrt[3]{r^2 - q^2}$

1.2.1 Make ' r ' the subject of the formula (3)

1.2.2 Calculate the value of ' r ' if $p = 4$ and $q = 6$ (1)

1.3 Solve for ' x ' and ' y ' in the following simultaneous equations:

$5x = 6y + 3$ and $3y - 4x + 1 = 0$ (4)

[14]

QUESTION 2

2.1 A man deducted 3 from 5 times his age and got his grandmother's age.

If his grandmother is 97 years old, how old is the man? (2)

2.2 Given: $4n^2 - 15n - 47 = 0$

Solve for ' n ' the equation using the quadratic formula. (3)

2.3 Given: $H = \frac{7,5U}{273 + V}$

2.3.1 Make ' V ' the subject of the formula. (3)

2.3.2 Find the value of ' V ' if $U = 0,5$ and $H = 0,005$ (1)

2.4 Given: $8p - 1 = -2q$ and $2p + 3q = 4$

Solve for ' p ' and ' q ' (4)

[13]

TOTAL: 27 MARKS

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Table of Contents N2 Maths Question Papers

1. Understanding the eBook N2 Maths Question Papers
 - The Rise of Digital Reading N2 Maths Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N2 Maths Question 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 N2 Maths Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N2 Maths Question Papers
 - Personalized Recommendations
 - N2 Maths Question Papers User Reviews and Ratings
 - N2 Maths Question Papers and Bestseller Lists
5. Accessing N2 Maths Question Papers Free and Paid eBooks

- N2 Maths Question Papers Public Domain eBooks
 - N2 Maths Question Papers eBook Subscription Services
 - N2 Maths Question Papers Budget-Friendly Options
6. Navigating N2 Maths Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - N2 Maths Question Papers Compatibility with Devices
 - N2 Maths Question Papers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N2 Maths Question Papers
 - Highlighting and Note-Taking N2 Maths Question Papers
 - Interactive Elements N2 Maths Question Papers
 8. Staying Engaged with N2 Maths Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N2 Maths Question Papers
 9. Balancing eBooks and Physical Books N2 Maths Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N2 Maths Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine N2 Maths Question Papers
 - Setting Reading Goals N2 Maths Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of N2 Maths Question Papers
 - Fact-Checking eBook Content of N2 Maths Question 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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