

SECTION - C

Question numbers 19 to 28 carry 3 marks each.

19. Simplify $\left(\frac{81}{16}\right)^{-\frac{3}{4}} \left[\left(\frac{25}{9}\right)^{-\frac{3}{2}} + \left(\frac{5}{2}\right)^{-3}\right]$.

20. Simplify the following by rationalising the denominator.

$$\frac{7\sqrt{3} - 5\sqrt{2}}{\sqrt{48} + \sqrt{18}}$$

OR

If $\frac{\sqrt{3} - 1}{\sqrt{3} + 1} = a + b\sqrt{3}$, find the value of a and b .

21. If $x + \frac{1}{x} = 7$ then find the value of $x^3 + \frac{1}{x^3}$.

OR

If $x - \frac{1}{x} = 3$ then find the value of $x^3 - \frac{1}{x^3}$.

22. Express $3.42\bar{5}$ in the form $\frac{p}{q}$ where p and q are integers, $q \neq 0$.

23. If $a^2 + b^2 + c^2 = 250$ and $ab + bc + ca = 3$ find $a + b + c$.

24. In figure 6, $\triangle LMN$ is an isosceles triangle with $LM = LN$, and LP bisects $\angle NLQ$. Prove that $LP \parallel MN$.

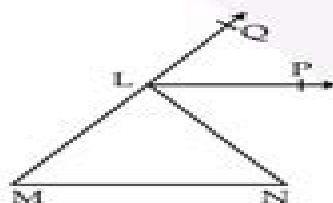


Figure 6

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Table of Contents Grade 9 Maths Exam Papers 2012 June

1. Understanding the eBook Grade 9 Maths Exam Papers 2012 June
 - The Rise of Digital Reading Grade 9 Maths Exam Papers 2012 June
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 9 Maths Exam Papers 2012 June
 - 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 Grade 9 Maths Exam Papers 2012 June
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 9 Maths Exam Papers 2012 June
 - Personalized Recommendations
 - Grade 9 Maths Exam Papers 2012 June User Reviews and Ratings
 - Grade 9 Maths Exam Papers 2012 June and Bestseller Lists

5. Accessing Grade 9 Maths Exam Papers 2012 June Free and Paid eBooks
 - Grade 9 Maths Exam Papers 2012 June Public Domain eBooks
 - Grade 9 Maths Exam Papers 2012 June eBook Subscription Services
 - Grade 9 Maths Exam Papers 2012 June Budget-Friendly Options
6. Navigating Grade 9 Maths Exam Papers 2012 June eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 9 Maths Exam Papers 2012 June Compatibility with Devices
 - Grade 9 Maths Exam Papers 2012 June Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 9 Maths Exam Papers 2012 June
 - Highlighting and Note-Taking Grade 9 Maths Exam Papers 2012 June
 - Interactive Elements Grade 9 Maths Exam Papers 2012 June
8. Staying Engaged with Grade 9 Maths Exam Papers 2012 June
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 9 Maths Exam Papers 2012 June
9. Balancing eBooks and Physical Books Grade 9 Maths Exam Papers 2012 June
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 9 Maths Exam Papers 2012 June
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 9 Maths Exam Papers 2012 June
 - Setting Reading Goals Grade 9 Maths Exam Papers 2012 June
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 9 Maths Exam Papers 2012 June
 - Fact-Checking eBook Content of Grade 9 Maths Exam Papers 2012 June
 - 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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