

SECTION A

Section - A consists of Multiple Choice type questions of 1 mark each.

1. The ratio of *HCF* to *LCM* of the least composite number and the least prime number is :

- (a) 1:2
- (b) 2: 1
- (c) 1: 1
- (d) 1: 3

Answer: (a)

Explanation:

The least composite number is 4, which has prime factors 2 and 2. The least prime number is 2.

The HCF (Highest Common Factor) of 4 and 2 is 2, because that is the largest number that divides both 4 and 2.

The LCM (Least Common Multiple) of 4 and 2 is 4, because that is the smallest number that is a multiple of both 4 and 2.

Therefore, the ratio of HCF to LCM of 4 and 2 is 2:4 or 1:2.

So the answer is (a) 1:2.

2. The roots of the equation $x^2 + 3x - 10 = 0$ are :

- (a) 2, - 5
- (b) - 2, 5
- (c) 2, 5
- (d) - 2, - 5

Answer: (a)

Explanation:

Given, $x^2 + 3x - 10 = 0$

$$x^2 + 5x - 2x - 10 = 0$$

$$x(x + 5) - 2(x + 5) = 0$$

$$(x + 5)(x - 2) = 0$$

$x = 2, - 5$ are the roots of the given equation.

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Table of Contents Gradeterm Question Paper Of Mathematics For 24

1. Understanding the eBook Gradeterm Question Paper Of Mathematics For 24
 - The Rise of Digital Reading Gradeterm Question Paper Of Mathematics For 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradeterm Question Paper Of Mathematics For 24
 - 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 Gradeterm Question Paper Of Mathematics For 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradeterm Question Paper Of Mathematics For 24
 - Personalized Recommendations
 - Gradeterm Question Paper Of Mathematics For 24 User Reviews and Ratings
 - Gradeterm Question Paper Of Mathematics For 24 and Bestseller Lists
5. Accessing Gradeterm Question Paper Of Mathematics For 24 Free and Paid eBooks
 - Gradeterm Question Paper Of Mathematics For 24 Public Domain eBooks

- Gradeterm Question Paper Of Mathematics For 24 eBook Subscription Services
- Gradeterm Question Paper Of Mathematics For 24 Budget-Friendly Options
- 6. Navigating Gradeterm Question Paper Of Mathematics For 24 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gradeterm Question Paper Of Mathematics For 24 Compatibility with Devices
 - Gradeterm Question Paper Of Mathematics For 24 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gradeterm Question Paper Of Mathematics For 24
 - Highlighting and Note-Taking Gradeterm Question Paper Of Mathematics For 24
 - Interactive Elements Gradeterm Question Paper Of Mathematics For 24
- 8. Staying Engaged with Gradeterm Question Paper Of Mathematics For 24
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gradeterm Question Paper Of Mathematics For 24
- 9. Balancing eBooks and Physical Books Gradeterm Question Paper Of Mathematics For 24
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gradeterm Question Paper Of Mathematics For 24
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gradeterm Question Paper Of Mathematics For 24
 - Setting Reading Goals Gradeterm Question Paper Of Mathematics For 24
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gradeterm Question Paper Of Mathematics For 24
 - Fact-Checking eBook Content of Gradeterm Question Paper Of Mathematics For 24
 - 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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