

- ix. The value of  $81xy \div 3xy$  is  
 a)  $3xy$                       b)  $27xy$                       c) 3                      d) 27
- x. The  $x$  – co-ordinate of a point which lies on the  $y$  – axis is  
 a) 1                      b) 0                      c) -1                      d) none of these
- xi. The product of the coefficients of  $x$  in  $-5xyz$  and  $2xy$  is  
 a)  $-10x$                       b)  $-10y^2z$                       c)  $-10x^2y^2z$                       d)  $-10z$
- xii. The number of faces a square prism has  
 a) 4                      b) 8                      c) 6                      d) 12
- xiii. The volume of cube whose side is  $20x$  is  
 a)  $80x$                       b)  $800x^2$                       c)  $8000x^3$                       d)  $800x^3$
- xiv. The value of  $(2x + 5)(2x - 5)$  when  $x = 4$  is  
 a) 16                      b) 39                      c) 13                      d) 5
- xv. 1 litre = \_\_\_\_\_  $\text{cm}^3$   
 a) 1000                      b) 100                      c) 10000                      d) 10

**SECTION –B**  
 (Questions 2 to 12 carry 2 marks each)

2. After selling a sweater for Rs. 600 Kavita suffered a loss of 20 %. Find the cost price of the sweater.
3. Sudhir saves 15% of his income. If he saves Rs.330 per month, find his income.
4. Simplify:  $ab - bc + bc - ca + ca - ab$ .
5. Find the area of rectangle whose length is  $xy$ , breadth is  $3y$ .
6. If a polyhedron has six faces and eight vertices, find the number of edges.
7. The surface area of a cube is  $600 \text{ cm}^2$ . Find its volume.
8. Express in standard form: a) 432000000 b) 0.000000058
9. Complete the table below by finding the values of  $a$ ,  $b$  where  $x$  and  $y$  are in direct proportion.

|     |     |     |     |
|-----|-----|-----|-----|
| $x$ | 60  | 72  | $b$ |
| $y$ | 300 | $a$ | 150 |

# Maths Paper For Grade 2014 Common

**JagranJosh**



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## **Table of Contents Maths Paper For Grade 2014 Common**

1. Understanding the eBook Maths Paper For Grade 2014 Common
  - The Rise of Digital Reading Maths Paper For Grade 2014 Common
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper For Grade 2014 Common
  - 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 Maths Paper For Grade 2014 Common
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper For Grade 2014 Common
  - Personalized Recommendations
  - Maths Paper For Grade 2014 Common User Reviews and Ratings
  - Maths Paper For Grade 2014 Common and Bestseller Lists
5. Accessing Maths Paper For Grade 2014 Common Free and Paid eBooks
  - Maths Paper For Grade 2014 Common Public Domain eBooks
  - Maths Paper For Grade 2014 Common eBook Subscription Services
  - Maths Paper For Grade 2014 Common Budget-Friendly Options

6. Navigating Maths Paper For Grade 2014 Common eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Paper For Grade 2014 Common Compatibility with Devices
  - Maths Paper For Grade 2014 Common Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper For Grade 2014 Common
  - Highlighting and Note-Taking Maths Paper For Grade 2014 Common
  - Interactive Elements Maths Paper For Grade 2014 Common
8. Staying Engaged with Maths Paper For Grade 2014 Common
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper For Grade 2014 Common
9. Balancing eBooks and Physical Books Maths Paper For Grade 2014 Common
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper For Grade 2014 Common
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Maths Paper For Grade 2014 Common
  - Setting Reading Goals Maths Paper For Grade 2014 Common
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Paper For Grade 2014 Common
  - Fact-Checking eBook Content of Maths Paper For Grade 2014 Common
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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