

22. Find the value of a and b in  $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a+b\sqrt{3}$

OR

Simplify  $\frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}} + \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$  by rationalizing the denominator.

### SECTION – D

Questions 23 to 30 carry 4 marks each.

23. Find the value of  $\frac{4}{(216)^{\frac{-2}{3}}} + \frac{1}{(256)^{\frac{-3}{4}}} + \frac{2}{(243)^{\frac{-1}{3}}}$

24. A dome of a building is in the form of a hemisphere. From inside, it was white-washed at the cost of Rs 498.96. If the cost of white-washing is Rs 2.00 per square metre, find the (i) inside surface area of the dome, (ii) volume of the air inside the dome.

OR

Monica has a piece of canvas whose area is  $551 \text{ m}^2$ . She uses it to have a conical tent made, with a base radius of 7 m. Assuming that all the stitching margins and the wastage incurred while cutting, amounts to approximately  $1 \text{ m}^2$ , find the volume of the tent that can be made with it.

25. Construct a triangle XYZ in which  $\angle Y = 30^\circ$ ,  $\angle Z = 90^\circ$  and  $XY + YZ + ZX = 11 \text{ cm}$ .

26. Show that if the diagonals of a quadrilateral bisect each other at right angles, then it is a rhombus.

OR

Prove that “The line-segment joining the mid-points of any two sides of a triangle is parallel to the third side and is half of it.”

27. Plot the points A (4, 4) and (–4, 4) on a graph sheet. Join the lines OA, OB and BA. What figure do you obtain.

28. A man hired an auto for 5 km. The fare was 10 for first km and 3 for every subsequent km. He paid 50, to which the auto driver said that its not the correct amount. The actual fare is somewhat less than that the amount you have paid to me.

- (i) Calculate the correct fare.  
(ii) Which value is being promoted by the auto driver?

29. The following table gives the life times of 400 neon lamps:

Life time (in hours)	Number of Lamps
300 – 400	14
400 – 500	56
500 – 600	60
600 – 700	86
700 – 800	74
800 – 900	62
900 – 1000	48

- (i) Represent the given information with the help of a histogram.  
(ii) How many lamps have a life time of more than 700 hours?

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**Jiyuan Zhang**



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## **Table of Contents Ulike Sample Papers For Class 9 Maths**

1. Understanding the eBook Ulike Sample Papers For Class 9 Maths
  - The Rise of Digital Reading Ulike Sample Papers For Class 9 Maths
  - Advantages of eBooks Over Traditional Books
2. Identifying Ulike Sample Papers For Class 9 Maths
  - 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 Ulike Sample Papers For Class 9 Maths
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ulike Sample Papers For Class 9 Maths
  - Personalized Recommendations
  - Ulike Sample Papers For Class 9 Maths User Reviews and Ratings
  - Ulike Sample Papers For Class 9 Maths and Bestseller Lists
5. Accessing Ulike Sample Papers For Class 9 Maths Free and Paid eBooks

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