

CBSE Class 9 Maths Sample Paper Set 4

SUBJECT: MATHEMATICS**CLASS : IX****MAX. MARKS : 80****DURATION : 3 HRS****General Instruction:**

- (i) All questions are compulsory.
- (ii) This question paper contains 30 questions divided into four Sections A, B, C and D.
- (iii) Section A comprises of 6 questions of 1 mark each. Section B comprises of 6 questions of 2 marks each. Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.
- (iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
- (v) Use of Calculators is not permitted

SECTION – A**Questions 1 to 6 carry 1 mark each.**

1. Find the value of $(81)^{0.16} \times (81)^{0.09}$.
2. A rabbit covers y metres distance by walking 10 metres in slow motion and the remaining by x jumps, each jump contains 2 metres. Express this information in linear equation.
OR
At what point the graph of the linear equation $2x - y = 7$ cuts the y -axis.
3. In the given figure, find the value of x and y where O is the centre of the circle.



4. Find the area of an equilateral triangle with side $2\sqrt{3}$ cm.
5. Two coins are tossed simultaneously 500 times, and we get
Two heads : 105 times One head : 275 times
Find the probability of getting 0 head.
OR
If the probability of winning a game is 0.4, what is the probability of losing it?
6. Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.

SECTION – B**Questions 6 to 12 carry 2 marks each.**

7. Using suitable identity, evaluate $(-32)^3 + (18)^3 + (14)^3$

ORIf $f(x) = x^2 - 4x + 6$, find $f(1) - f(-1)$

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Table of Contents Sample Papers For Class 9 Cbse Sa2013

1. Understanding the eBook Sample Papers For Class 9 Cbse Sa2013
 - The Rise of Digital Reading Sample Papers For Class 9 Cbse Sa2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Papers For Class 9 Cbse Sa2013
 - 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 Sample Papers For Class 9 Cbse Sa2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Papers For Class 9 Cbse Sa2013
 - Personalized Recommendations

- Sample Papers For Class 9 Cbse Sa2013 User Reviews and Ratings
- Sample Papers For Class 9 Cbse Sa2013 and Bestseller Lists
- 5. Accessing Sample Papers For Class 9 Cbse Sa2013 Free and Paid eBooks
 - Sample Papers For Class 9 Cbse Sa2013 Public Domain eBooks
 - Sample Papers For Class 9 Cbse Sa2013 eBook Subscription Services
 - Sample Papers For Class 9 Cbse Sa2013 Budget-Friendly Options
- 6. Navigating Sample Papers For Class 9 Cbse Sa2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Papers For Class 9 Cbse Sa2013 Compatibility with Devices
 - Sample Papers For Class 9 Cbse Sa2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Papers For Class 9 Cbse Sa2013
 - Highlighting and Note-Taking Sample Papers For Class 9 Cbse Sa2013
 - Interactive Elements Sample Papers For Class 9 Cbse Sa2013
- 8. Staying Engaged with Sample Papers For Class 9 Cbse Sa2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Papers For Class 9 Cbse Sa2013
- 9. Balancing eBooks and Physical Books Sample Papers For Class 9 Cbse Sa2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Papers For Class 9 Cbse Sa2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Papers For Class 9 Cbse Sa2013
 - Setting Reading Goals Sample Papers For Class 9 Cbse Sa2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Papers For Class 9 Cbse Sa2013
 - Fact-Checking eBook Content of Sample Papers For Class 9 Cbse Sa2013

- 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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