

# 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  $(-32)^3 + (18)^3 + (14)^3$

**OR**If  $f(x) = x^2 - 4x + 6$ , find  $f(1) - f(-1)$

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