



# B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

PERIODIC TEST-1 (2026-27)

MATHEMATICS

SET-2

Class: VIII  
Date: 12.06.26  
Admission no:

Time: 1 hr.  
Max Marks:25  
Roll no:

## General instructions

- This question paper consists of three sections
- Section A consists of multiple-choice questions of 1 mark each. Section B consists of 2 questions and Section C consists of 3-mark questions.
- Attempt all questions. All answers must be correctly numbered as in the question paper and written in the answer sheet.

## SECTION A

**Choose the correct alternative and write the complete answer along with the letter of alphabet**

**5 x 1 = 5**

1. Which of the following are not perfect squares.  
a) 169                      b) 40000                      c) 625                      d) 527
2. How many numbers lie between the square of 15 and 16  
a) 24                      b) 32                      c) 30                      d) 40
3. Express  $5 \times 5 \times 5 \times 5 \times 5$  in exponential form  
a)  $2^6$                       b)  $5^6$                       c)  $6^5$                       d)  $8^6$
4.  $4987^0$   
a) 2                      b) 8                      c) 1                      d) 0
5. The cube of any even number is  
a) Even                      b) odd                      c) prime                      d) none of these

## SECTION B

**Solve the following:**

**4 x 2 = 8**

6. Find the square root of 16900
7. Write the following as the sum of odd numbers: a) 64                      b) 121
8. Simplify and write in exponential form : a)  $5^9 \div 5^8$                       b)  $(13^{-7})^{-3}$

9. If  $13^2 = 169$  what is the value of a)  $(1.3)^2$                       b)  $(0.13)^2$

**SECTION C**

**Solve the following:**

**4 × 3 = 12**

10. Find the length of the side of a square whose area is  $484 \text{ m}^2$ .
11. Write  $32^{-5}$  as the product of three or more powers in three different ways the power can be any integer.
12. Find the cube root of                      a) 1331                      b) 512
13. Simplify :  $(2^2 \times 4^3) \div 8^2$

**\*\*\*\*\* All the best \*\*\*\*\***