



B.K. BIRLA CENTRE FOR EDUCATION

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



PRE-MID TERM 2026-27 MATHEMATICS: SET 2

Class: VIII
Date: 22.07.26
Admission no:

Time: 1hr
Max Marks: 25
Roll no:

General Instructions:

1. This Question Paper has 4 Sections A, B, C and D.
2. Section A has 5 MCQs carrying 1 mark each
3. Section B has 3 questions carrying 02 marks each.
4. Section C has 2 questions carrying 03 marks each.
5. Section D has 2 questions carrying 04 marks each.
6. All Questions are compulsory.

SECTION A

1. The landmark numbers in the Chinese number system are powers of which number? 1m
(a) 10 (b) 60 (c) 90 (d) None of these
2. What is the symbol for 100 in Roman numerals? 1m
(a) V (b) L (c) C (d) None of these
3. If a quadrilateral has exactly two pairs of equal adjacent sides, then it is called 1m
(a) Triangle (b) Trapezium (c) Kite (d) None of these
4. In which of the following quadrilateral the diagonals bisect each other? 1m
(a) Square (b) Kite (c) Rhombus (d) None of these
5. In a parallelogram ABCD, if $\angle B = 110^\circ$ then, $\angle D$ is equal to
(a) 90° (b) 110° (c) 70° (d) None of these

SECTION B

7. Find sum of 2015 and 1567 and write answer in Egyptian Numerals. 2m
8. Write all Zongs and Hengs from numerals 1 to 9. 2m
9. Two adjacent angles of a parallelogram are in the ratio 7:3. Find all the angles of the parallelogram. 2m

SECTION C

10. Write the following Hindu-Arabic numbers using the Mayan number system. 3m
- (a) 19
(b) 35
(c) 70

11. The angles of a quadrilateral are in the ratio 3:6:9:12. Find the measure of the largest angle. 3m

SECTION D

12. An ancient shepherd uses a tally system to count his flock of 20 goats. He makes a single mark on a stick for each goat. To make counting easier, he uses a simple five-grouping method. 4m

How many total marks (symbols) will the shepherd use to count his 20 goats? (1)

Draw or describe how the marks would look using the shepherd's five-grouping method. (1)

If the shepherd saw 5 more goats, how many total marks would he have? (1)

13. The shepherd's method demonstrates which fundamental counting principle? (1)
A park is designed in the shape of a parallelogram ABCD. The opposite sides of the park are equal and parallel. The designer observes that the diagonals of the parallelogram divide each other into equal parts. 4m

(a) If $\angle A = 80^\circ$, find the measure of $\angle C$. (1)

(b) If side $AB = 11$ m and side $BC = 9$ m, find the perimeter of the park. (1)

(c) The diagonal AC and BD intersect at point O. If $AO = 7$ m, find the length of AC. (2)

OR

If the area of the parallelogram is 108 m^2 and its base is 12 m, find its height.

****BEST OF LUCK****