B.K. BIRLA CENTRE FOR EDUCATION

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

PERIODIC TEST-1 (2025-26)
MATHEMATICS

Class: VII **Time: 1 hr.**
Date: 05.07.25 **Max Marks: 25**
Admission no: **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.
- Write neatly and draw diagrams wherever necessary.

Section A

Choose the correct answer: **1 x 5 = 5**

1. 5 added to – 5 gives
   (a) 10   (b) – 10   (c) 0   (d) – 25

2. Identify which of the following pairs of angles are complementary
   (a) 65º, 115º   (b) 63º, 27º   (c) 112º, 68º   (d) 130º, 50º

3. Which number is being represented by the point A on the following number line: A


   (a) – 9   (b) 5   (c) – 6   (d) – 5

4. If two lines intersect at a point, then the vertically opposite angles are always ____
   (a) equal   (b) unequal   (c) supplementary   (d) complementary

5. Which of the following is correct
   (a) – 8 > – 7   (b) 1 < 0   (c) – 1 < 0   (d) – 2 > 4
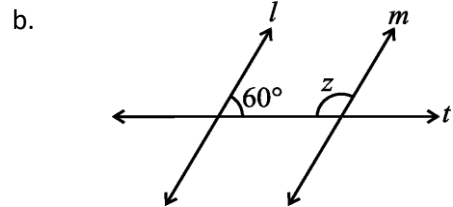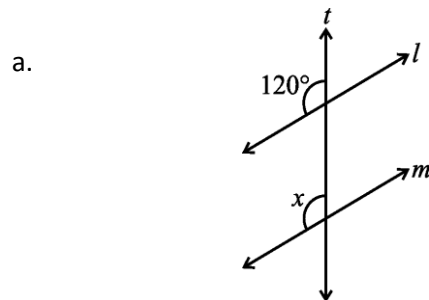
Section B

Do as directed **2 x 4 = 8**

6. In the adjoining figure, name the following pairs of angles.
   a. Obtuse vertically opposite angles
   b. Adjacent complementary angles
   c. Equal supplementary angles
   d. Unequal supplementary angles
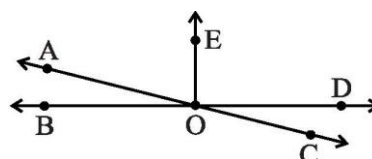
7. Calculate: $1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + 9 - 10$

8. Lines $l \parallel m$; t is a transversal. Find the value of $\angle x$ *and* $\angle z$

a.

b.

9. Write four distinct integers whose sum is -7.

Section C

Solve the following   **3 x 4 = 12**

10. Verify the following:
a. $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$
b. $(-21) \times [(-4) + (-6)] = [(-21) \times (-4)] + [(-21) \times (-6)]$

11. Evaluate each of the following:
a. $(-31) \div [(-30) + (-1)]$
b. $[(-36) \div 12] \div 3$
c. $[(-6) + 5)] \div [(-2) + 1]$

12. Find the angle that is five times its complement.

13. Lines $l \parallel m$, $p \parallel q$; Find a, b, c, d

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