FORMATIVE ASSESSMENT - FIRST MID TERM

MATHEMATICS

Max Marks: 50

Std - VII

Time: 2 Hrs

Name of the School:	**Name of the Student:**
_____	_____
Place:	**Roll No.:**
_____	_____

I. Choose the correct answer: **5 × 1 = 5**

1. (6) – (–3) _____
   (a) 3 (b) 9 (c) –9
2. If the perimeter of a square is 8 cm , What is the area of the square? _____
   (a) 4 (b) 2 (c) 8
3. Area of parallelogram _____
   (a) ½ *bh* sq.units (b) *bh* sq.units (c) ½ (*b* + *h*) sq.units
4. Which one of the following represents commutative property? _____
   (a) $p + q = pq$ (b) $q + p = qp$ (c) $p + q = q + p$
5. Sum of angles of a triangle is _____
   (a) 120° (b) 360° (c) 180°

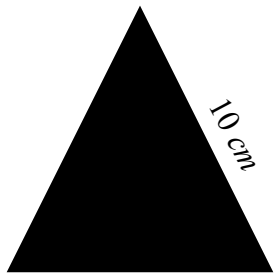
II. Fill in the blanks: **5 × 1 = 5**

1. Area of a rhombus whose diagonals are d_1 and d_2 is _____
2. (–56) ÷ (8) = _____
3. The additive inverse of 7 is _____
4. 4 + _____ = –3 + 4
5. The sum of any integer and its additive inverse is always _____

III. Do as directed: (Any 10) **10 × 2 = 20**

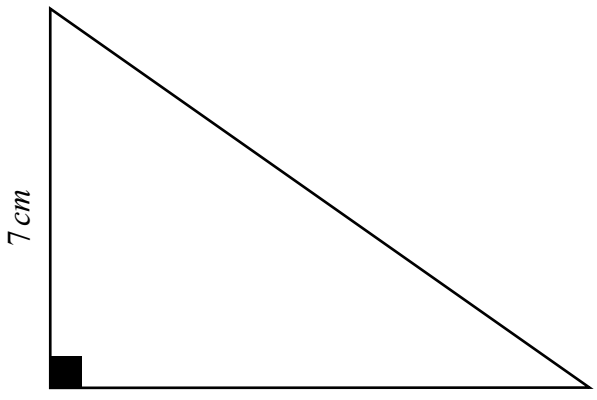
1. Add using number line: (4) + (– 8)
2. Find the product : (–18) × (+15)
3. Use distributive property and find the product : 998 × 102
4. Evaluate the quotient: 162 ÷ (–9)
5. A submarine was situated 750 feet below sea level. If it ascends 250 feet, what is its new position?
6. In the following sets of integers fill in the correct signs: <, >, =.
   (a) (+5) _____ (–5)
   (b) (+2) _____ (+3)

7. Find the perimeter of the given figure.



Equilateral triangle

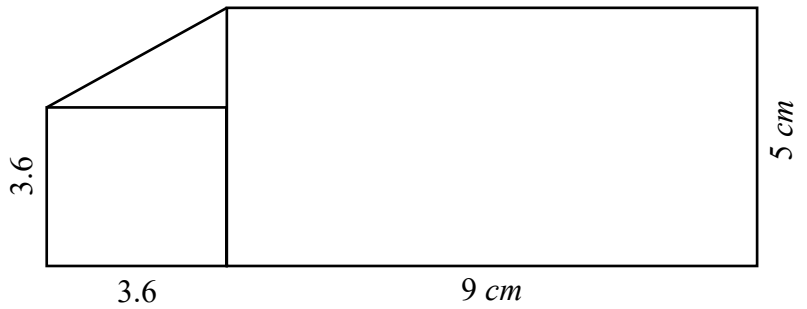
8. A triangle has a height of 9 *cm* and its area is 36 *sq.cm*. What is the length of its base?
9. Find the area of the below triangle.



10. A parallelogram of base 12 *m* has an area 108 *sq.cm*. Find the height.
11. What should be subtracted from −90 to get 22?

IV. Do as directed: (Any 2) **2 × 5 = 10**

1. Calculate the area of the below figure.



2. In a competitive examination negative marks of 2 are awarded for each wrong answer and 4 marks for every correct answer. If Neerav gets 15 correct answers and 5 wrong answers and Rajan gets 14 correct answers and no wrong answer, who gets more marks and by how much?

3. The floor of a courtyard has 2000 tiles. The courtyard is in the shape of a rhombus whose diagonals measure 40 *cm* by 25 *cm*. The floor needs to be polished. Find the cost of polishing the floor if the cost of polishing is ₹ 5.50 per square cm.

4. A rectangular ground of dimensions 65 *m* and 32 *m* needs to be levelled. Find the cost of levelling this ground at the rate of ₹ 3 per square meter.

V. Geomtery: **1 × 10 = 10**

1. Construct a perpendicular bisector of the following length, AB = 8.5 *cm*