SUMMATIVE ASSESSMENT – FIRST TERM

MATHEMATICS

Std - VII **Max. Marks: 60** **Time: 2 Hrs**

I. Choose the correct answer: **10 x 1 = 10**

1. The value of (+11) + (–4) is equal to _____.
   a) 7 b) –7 c) 15 d) –15
2. (+3) – (–2) is equal to _____.
   a) 5 b) –5 c) –1 d) –4
3. (15) × (–20) is equal to _____.
   a) –40 b) –80 c) 30 d) –30
4. The perimeter of a rectangle is _____.
   a) $4a$ b) $2a + 2(lb)$ c) $2(l + b)$ d) $4a^2$
5. The area of a square whose side is 20 cm is _____.
   a) A = 40 sq unit b) A = 80 sq unit c) A = 100 sq unit d) A = 400 sq unit
6. The area of a parallelogram is equal to _____.
   a) $b + h$ b) $b \times h$ c) $a + b$ d) $a^2 + b$
7. The area of a trapezium is equal to _____.
   a) $\frac{1}{2}(a + b) \times h$ b) $\frac{1}{2}(d_1 \times d_2)$ c) $\frac{1}{2}$ bh d) $\frac{1}{2}abh$
8. Find the value of x, in the given equation, $4 + x = 9$
   a) $x = -5$ b) $x = -4$ c) $x = 5$ d) $x = 19$
9. If $2m + 5 = 25$, then 'm' is equal to _____.
   a) 2 b) 1 c) 10 d) 15
10. An angle that is less than 90° is called _____ angle.
    a) obtuse b) right c) acute d) full

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

11. When two lines are intersected by a third line at two distinct points, the intersecting line is called _____.
12. Find the missing values.

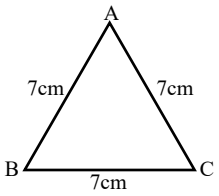
    10 : 50 : : x : 55, then x = _____.
13. Find x, $x + 1 = 4$
14. Find the coefficient of x : $2x - 7$: _____.
15. The base of a triangle is 4 cm and the height is 10 cm find the area. _____.

III. Match the following: **5 x 1 = 5**

16.	700 – 950	=	0
17.	P + (–P)	=	–250
18.	Area of rhombus	=	1:48
19.	$9x + 14x - 3x$	=	$\frac{1}{2}(d_1 \times d_2)$
20.	3 hours to 6 days	=	$20x$

IV. Do as directed: **10 x 2 = 20**

21. Use distributive property and find the product. 1001×81
22. Find the perimeter of the given equilateral triangle ABC of side 7 cm.



23. Find the area of the parallelogram with a base of 22 cm and a height of 6 cm.
24. Evaluate: $\frac{10p}{pq}$ when $p = -2$, $q = 1$
25. From $3a^2 + 4b^2 - 5c^2$ subtract $2a^2 - 3b^2 - 5c^2$
26. Solve:

    a) $3x + 4 = 22$ b) $5x - 2 = 43$
27. Write the ratio.

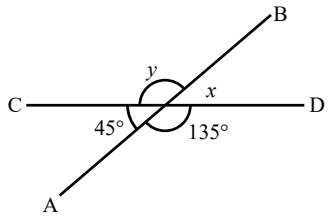
    a) 25 *kl* to 300 *l* b) 4 *km* to 250 *m*

28. a) When two angles together measure 90°, it is said to be _____ angle.

    b) When two angles together measures 180°, it is said to be _____ angle.

29. What is a route map?

30. Find the value of *x* and *y*.



V. Answer the following (Any 2) **2 x 5 = 10**

31. A plane is flying at a height of 7200 meters above the ocean. It drops a sonar beacon to the ocean floor. The beacon drops 8540 meters. What is the depth of the ocean at this point?

32. Find the cost of painting the 4 walls of a room if 2 walls have 4m and 3.5 m as their length and breadth respectively and the other two have their length of 3.5 m and breadth of 3 m at the rate of ₹55 per sq.m.

33. If the cost of 12 pencils is ₹ 60, find the cost of 5 pencils. There are 2 quantities (ie) No of pencils and cost.

VI. Answer the following and draw a graph: **2 x 5 = 10**

34. What are the forms of a polyominoes. Draw and name each them.

35. Construct a perpendicular bisector of the lines having the following length AB = 8.5 cm.