SUMMATIVE ASSESSMENT – FIRST TERM

MATHEMATICS

Std - VII

Max. Marks: 60

Time: 2 Hrs

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

1. 2^2 means _____
     a) 2×2 b) $a \times a$ c) $2 + a$ d) none of these

2. If $x = 5$, $y = 3$ then xy is _____
     a) 75   b) 15   c) 25   d) 45

3. 3 hours to 6 days is _____
     a) 3:6   b) 1:2   c) 1:48   d) 2:1

4. Sum of the adjacent angles is _____
     a) 90°   b) 360°   c) 180°   d) 270°

5. Meaning of trinomino is _____
     a) one square   b) two squares   c) three squares   d) four squares

6. Area of the triangle is _____ sq. unit.
     a) $\frac{1}{2}\,bh$ b) bh c) $\frac{1}{2}\,d_1 \times d_2$ d) $\frac{1}{2}\,h\,(a + b)$

7. Sum of a number and its additive inverse is _____
     a) 1   b) 0   c) same number   d) –1

8. $-12 - (-4) =$ _____
     a) 16   b) -8 c) -16 d) 8

9. _____ refers to the surface enclosed by the closed figure.
     a) Area   b) Length   c) Perimeter   d) Diagonal

10. A _____ will divide an angle into 2 equal angles.
      a) Angle bisector   b) Line segment   c) Point   d) Transversal

II. **Do the following: (Any 10)**   **10 x 2 = 20**
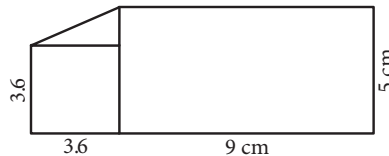
11. Add the following using number line.   a) $(+7) + (+6)$ b) $(+4) + (-4)$

12. Write the given sets of integers in ascending order and descending order:
    $(+1), (-2), (0), (-13), (21)$

13. A wire is $(9x - 5)$ meters long. A length of $(2x + 2)$ meters is cut out of it for use. How much wire is left?

14. Find the perimeter of a rectangular playground of 70 m by 50 m.

15. Find the area of a parallelogram with base 8 units and height 6 units.
16. From $3a^2 + 4b^2 - 5c^2$ subtract $2a^2 - 3b^2 - 5c^2$.
17. Solve $7x + 28 = 5x + 30$
18. Divide 3600 in the ratio 3:2.
19. In an examination, negative marks were given for the wrong answers. Each wrong question carried 2 negative marks. Sheela made 5 mistakes and Priya made 7 mistakes. How many marks did each student loose?
20. If $x°$ and $y°$ are complimentary angles and $x° = 55°$ find $y°$.
21. Find the value of $4x^3y^2z$ when $x = 2, y = 1, z = -1$
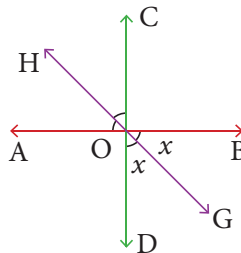
III. Do the following: (Any 4)   4 x 5 = 20

22. Find the product using distributive property: 234×998
23. Verify the identity for the given values $(a + b)(a - b) = a^2 - b^2$ when $a = 5, b = -3$
24. In a park there are 200 trees and 1,000 flowering plants.
    a) Find the ratios of the flowering plant to the trees.
    b) If 10 trees are cut as they were deseased, what is the ratio now of the trees to the flowering plants?
    c) 50 plants were seasonal and had to be removed. Find the ratio of trees to the plants.

25. Find the area of the combined figure.

26. Lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ are perpendicular ($\perp$), OG bisects $\angle DOB$. Find the measure of x. Find the measure of $\angle AOH$.

27. A train travelling at the rate of 48 km/hr reaches its destination in 45 hours. If the train has to reach the destination in 36 hours, what will be its average speed?

IV. Draw the following: (Any 1)   1 x 10 = 10

28. Draw the following angle with your protractor and bisect using a compass. Measure the angle and verify it.   a) 60°   (*Or*)   b) 45°