

SUMMATIVE ASSESSMENT – FIRST TERM

Std - VII

MATHEMATICS

Max. Marks: 60

Time: 2 Hrs

I. Choose the correct answer:

$$5 \times 1 = 5$$

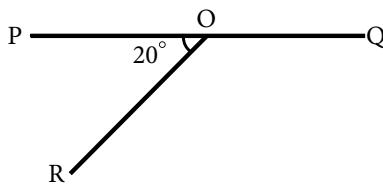
II. Fill in the blanks:

$$5 \times 1 = 5$$

1. If two lines intersect, the vertically opposite angles are _____.
2. Area of circle of radius ' r ' is = _____ square units
3. The sum of any integer and its additive inverse is always _____.
4. Degree of constant is _____.
5. The sum of a number and its additive inverse is _____.

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

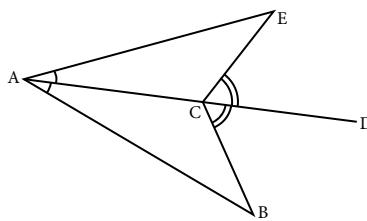
1. Can a triangle have the angles as 65° , 74° and 66° ? Justify your answer.
2. Find the product : $(-18) \times (+15)$
3. Use distributive property and find the product : 998×102
4. Evaluate the quotient: $162 \div (-9)$
5. A submarine was situated 750 feet below sea level. If it ascends 250 feet, what is its new position?
6. What is the measure of $\angle ROQ$?



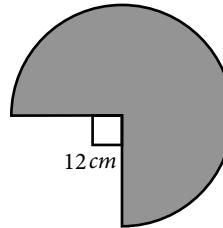
7. Find the circumference of a carrom-board coin whose radius is 1.58 cm .
8. A wire bent in the form of a square encloses an area 225 cm^2 . If the same wire is bent in the form of a circle, find the area enclosed. Which area is greater? ($\pi = 3.14$)
9. During the mango season 65 mangoes were plucked from a tree. 2 mangoes were not good for distribution. The rest were shared equally amongst 7 people. How many mangoes did each person receive?
10. In a triangle, if the second angle is 2 times the first angle and the third angle is 3 times the first angle, find the angles of the triangle.
11. Mrs. Kumar bought two pairs of gold studs weighing 7.52 gms and 8.15 gms . Which one has more gold in it?
12. If a car travels 323.75 km with 9.25 litres of petrol, what distance does it cover with 1 litre of petrol?
13. Solve: $8x + 40 = 3x + 25$
14. The ratio of radii of two circles is $4:5$. Find the ratio of their areas.
15. If the cost of 12 pencils is $\text{₹ }60$, find the cost of 5 pencils.

IV. Do as directed: (Any 6)**6 x 5 = 30**

1. 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?
2. 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?
3. A pair of gold earrings weighs 152.65 mg . Find the weight of 18 such pairs. The jeweller made these earrings out of a gold coin weighing 4 g . Find the weight of gold remaining.
4. If the sum of three consecutive numbers is 72, what is the largest number?
5. In a right-angled triangle, the two acute angles are $(x + 8)^\circ$ and $(2x - 5)^\circ$. Find the angles of the triangle.
6. Given that AD bisects $\angle EAB$ and $\angle ECB$, identify the triangles that are congruent. Give reasons. Write the corresponding parts of the congruent triangles.



7. The diagram shows three-quarters of a circle of radius 12 cm. Find the perimeter of the shape. ($\pi = 3.14$)



8. A square lawn has an area 900 m^2 . A pathway of width 4 m is constructed all around the lawn. The entire area is fenced at the cost of ₹ 25 per meter. Find the cost of fencing the area.