

SUMMATIVE ASSESSMENT – FIRST TERM**MATHEMATICS****Max. Marks: 60****Std - VII****Time: 2 Hrs****I. Choose the correct answer:****5 x 1 = 5**

1. $(+11) + (-14) = \underline{\hspace{2cm}}$.
a) 15 b) -16 c) 3 d) -3
2. The product of $(-8) \times (-15)$ is $\underline{\hspace{2cm}}$.
a) 200 b) -200 c) -120 d) +120
3. $64.89 - 51.4 = \underline{\hspace{2cm}}$.
a) -13.49 b) 13.49 c) -134.9 d) 134.9
4. $0.4 \times 0.005 = \underline{\hspace{2cm}}$.
a) 0.0002 b) 0.002 c) 0.2000 d) 0.0200
5. If $x = 3, y = 5$ then xy^2 is $\underline{\hspace{2cm}}$.
a) 75 b) 225 c) 30 d) 32

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

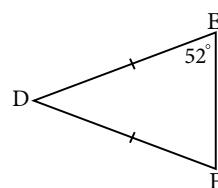
6. $3 : 4 = 9 : \underline{\hspace{2cm}}$
7. If 15 shirts costs ₹6000 then 25 shirt will cost $\underline{\hspace{2cm}}$.
8. Find the area of the circle whose radius is 21 cm.
9. The sum of the three interior angles of a triangle is $\underline{\hspace{2cm}}$.
10. If $p = 3, q = 4$, then $pq - (p + q)$ is $\underline{\hspace{2cm}}$.

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

11. Radius: 4 cm	Diameter: 8 cm	–	Area of circle: 346.50
12. Diameter : 21 cm	–	–	9.9224
13. $2m + 5 = 25$, then m is	–	–	11.75
14. $2 \times 3.14 \times 1.58$	–	–	Circumference 25 cm
15. $200.00 - 188.25$	–	–	10

IV. Do as Directed: (Any 5)**5 x 2 = 10**

16. Use distributive property and find the product of the following: 998×102
17. Divide 39.12 by 12
18. Find the area and perimeter of the rectangle: $l = 4 \text{ cm}, b = 3 \text{ cm}$
19. ΔDEF is isosceles and $DE = DF$ Find $\angle D$ and $\angle F$.



20. The area of a circle is 616 cm^2 . Find its circumference.

21. A rectangular plot has dimensions of 60 m by 40 m. A house is constructed at the centre and a pathway of uniform width 2.5 m is constructed all around the outside of the house. Find the cost of paving the pathway with cement slaps if it costs ₹240 per sq. m.

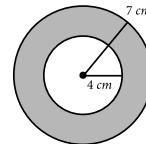
V. Answer the following questions briefly: (Any 6)

6 x 5 = 30

22. a) Sarita is a voracious reader. She can read 20 pages of Harry Potter in 10 minutes. If the book has 620 pages, how long will Sarita take to finish the book, assuming she reads continuously.

b) If the cost of 12 pencils is ₹60. Find the cost of 5 pencils.

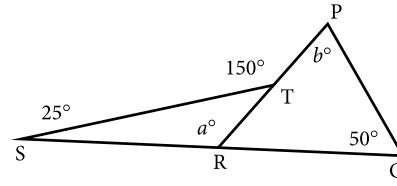
23. Calculate the area of the shaded region in the given figure.



The two circles have the same centre and the radii of 7 cm and 4 cm respectively.

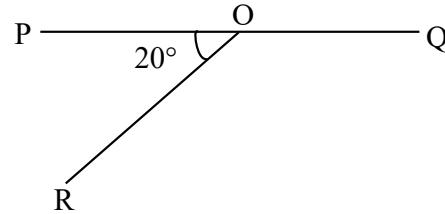
24. The circumference of a circular frame is 88 cm. Find its radius and diameter. (Take $\pi = \frac{22}{7}$)

25. Find angles a and b in the figure given below.



26. a) If x° and y° are supplementary angles and $x^\circ = 130^\circ$, find y° .

b) What is the measure of $\angle ROQ$



27. a) The perimeter of a square is 64 cm, Find the side of the square.

b) Evaluate, $1.716 \div 11$

c) Write the following as decimal numbers $90 + \frac{2}{10} + \frac{7}{1000}$

d) Evaluate the quotient.

$(+99)$ and (-11)

e) 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?

28. a) A box of sweets weighs 2.125 kg. What would be the weight of a dozen such boxes?

b) If urad dal costs ₹112.45 per kg. What would be the cost of 2000 kgs?

VI. Theorem.

1 x 5 = 5

29. Angle sum property. Verify the statement and prove the property.

[Angle sum property of a triangle states that the sum of the three interior angles of a triangle is 180°]