

I. Choose the correct answer. (20×1=20)

- The place value of 7 in 0.37 is _____
a) Ones b) Hundredths c) Tens d) Thousand
- The place value of 3 in 85.073 is _____
a) Tenths b) Hundredths c) Thousands d) Thousandths
- A Cricket pitch is about 264 cm wide. It is equal to _____m.
a) 26.4 b) 2.64 c) 0.264 d) 0.0264
- For any decimal number, number of zeros in the denominator and number of decimal digits are _____
a) Greater b) Equal c) Lesser d) Not equal
- $\frac{3}{5}$ = _____
a) 0.06 b) 0.006 c) 6 d) 0.6
- The simplest form of 0.35 is _____
a) $\frac{35}{1000}$ b) $\frac{35}{10}$ c) $\frac{7}{20}$ d) $\frac{7}{100}$
- If the circumference of a circle is 82π , then the value of 'r' is
a) 41 cm b) 82 cm c) 21 cm d) 20 cm
- Formula used to find the circumference of a circle is _____units.
a) $2\pi r$ b) πr^2+2r c) πr^2 d) πr^3
- In the formula, $C = 2\pi r$, 'r' refers to_____
a) Circumference b) Area c) Rotation d) Radius
- The formula used to find the area of the circle is _____sq.units.
a) $4\pi r^2$ b) πr^2 c) $2\pi r^2$ d) πr^2+2r
- The ratio of the area of a circle to the area of its semicircle is ____
a) 2 : 1 b) 1: 2 c) 4 : 1 d) 1 : 4
- The formula to find the area of the circular path is _____
a) $\pi (R^2-r^2)$ sq.units b) πr^2 sq.units
c) $2\pi r^2$ sq.units d) πr^2+2r sq.units
- The formula to find the width of the circular path is _____units.
a) $(L-l)$ b) $(B-b)$ c) $(R-r)$ d) $(r-R)$
- A _____is a closed figure formed by three line segments.
a) Rectangle b) Square c) Triangle d) Hexagon
- The angles of a triangle are in the ratio 2 : 3 : 4.
Then the angles are_____
a) 20, 30, 40 b) 40, 60, 80 c) 80, 20, 80 d) 10, 15, 20
- One of the angles of a triangle is 62° . If the difference of the other two angles is 45° , then the two angles are _____
a) $85^\circ, 45^\circ$ b) $70^\circ, 25^\circ$ c) $80^\circ, 35^\circ$ d) $80^\circ, 135^\circ$

17. Exterior angle = sum of two interior _____ angles.
a) Alternate b) Corresponding c) Opposite d) Vertical
18. If an exterior angle of a triangle is 115° and one of the interior opposite angles is 35° , then the other two angles of the triangle are_____
a) $45^\circ, 60^\circ$ b) $65^\circ, 80^\circ$ c) $65^\circ, 70^\circ$ d) $115^\circ, 60^\circ$
19. Sum of all three angles of a triangle is _____
a) 90° b) 180° c) 270° d) 380°
20. Each angle of an equilateral triangle is of _____measure.
a) 90° b) 180° c) 60° d) 45°

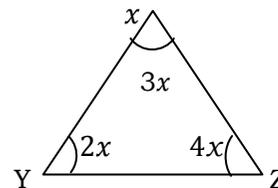
II. Answer any ten of the following.

Question **No. 36** is compulsory either 'a' or 'b' (10×3=30)

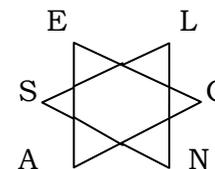
21. Can the following angles form a triangle?

$80^\circ, 70^\circ, 50^\circ$

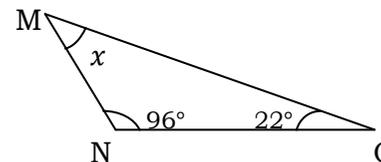
22. Find the value of x



23. Observe the figure and find the value of $\angle A + \angle N + \angle G + \angle L + \angle E + \angle S$



24. Find the value of x



25. Find the area of a circular pathway whose outer radius is 32 cm inner radius is 18 cm.

26. Find the area of the dining table whose diameter is 105 cm

27. Calculate the area of the shotput circle whose radius is 2.135m

28. Lalitha wants to buy a round carpet of radius 63 cm for her hall.
Find the area that will be covered by the carpet.
29. The diameter of a circular well is 4.2 m. What is its circumference?
30. Find the circumference of the circle whose radius is 49 cm.
31. Find the circumference of the circle whose diameter is 70 cm.
32. Convert the following fractions into decimal number $3\frac{19}{25}$.
33. Write the following decimal number in the place value table.
173.178
34. Express the following decimal numbers in place value grid and write the place value of the underlined digit.
263.271
35. Express the following in cm using decimals
i) 5 mm ii) 8 cm 9 mm
36. a) What is the circumference of the circular disc of radius 14 cm?
(or)
b) Convert 0.862 into simplest fraction.

III. Answer any six of the following.

Question **No. 45** is compulsory either 'a' or 'b' (6× 5=30)

37. Express the following as fractions.
i) A capsule contains 0.85 mg of medicine.
ii) A juice container has 4.5 litres of mango juice.
38. A ground is in the form of a circle whose diameter is 350 m.
An athlete makes 4 revolutions. Find the distance covered by the athlete.
39. A rose garden is in the form of circle of radius 63 m.
The gardener wants to fence it at the rate of Rs. 150 per-meter. Find the cost of fencing.
40. Thenmozhi wants to level her circular flower garden whose diameter is 49 m at the rate of Rs. 150 per-m². Find the cost of levelling.

41. The circumference of a circular park is 352 m. Find the area of the park.
42. A rectangular garden has dimensions 11m × 8m. A path of 2m wide has to be constructed along its sides. Find the area of the path.
43. Express the following in metres using decimals.
a) 16 cm b) 2m 54cm
44. Match.
i) 100cm - $l+2w$
ii) 17.39 - π
iii) 4m - 1m
iv) $\frac{c}{d}$ - 0.004km
v) L - hundredths
45. a) A picture of length 23cm and breadth 11cm is painted on a chart, such that there is a margin of 3cm along each of its sides. Find the total area of the margin.

(or)

- b) In ΔSTU , if $SU=UT$, $\angle SUT = 70^\circ$, $\angle STU = x$. Find the value of x .

