

27. Evaluate : i) $\frac{9}{132} \times \frac{-11}{3}$ ii) $\frac{-7}{27} \times \frac{24}{-35}$
28. Find the value of $\sqrt{256}$.
29. Simplify $(3^5 \div 3^8)^6 \times 3^{-6}$
30. By how much does $\frac{1}{(10/11)}$ exceed $\frac{(1/10)}{11}$?
31. A circular shaped Gymnasium ring of radius 35cm is divided into 5 equal arcs shaded with different colours. Find the length of each of the arcs.
32. A circle of radius 70 cm is divided into 5 equal sectors. Find the area of the sectors.
33. Find the product of $2x^2y^2$, $3y^2z$ and $-z^2x^3$
34. Simplify : $\frac{3m^2}{m} + \frac{2m^4}{m^2}$
35. Find the value of $(3a + 4c)^2$ by using $(a+b)^2$ Identify.
36. What is 25% of 30% of 400?
37. If x% of 600 is 450 Then find the value of x.
38. The value of motor cycle 2 years ago was ₹. 70,000. It depreciates at the rate of 4% p.a. Find its present value.
39. Can a right triangle have sides that measure 5 cm, 12 cm and 13 cm?
40. Is 108 a perfect square number?

PART - III

VI. Answer any Seven questions. (Q.No.50 Compulsory.)

7x5=35

41. Arrange the following rational numbers in ascending and descending order.
- $\frac{-5}{12}$, $\frac{-11}{8}$, $\frac{-15}{24}$, $\frac{-7}{-9}$, $\frac{12}{36}$
42. Simplify : $\left[\frac{4}{3} - \left(\frac{-3}{2}\right)\right] + \left[\frac{-5}{3} \div \frac{30}{12}\right] + \left[\frac{12}{9} \times \frac{-27}{16}\right]$
43. What is the square root of Cube root of 46656?
44. If $P + 2q = 18$ and $Pq = 40$, Find $\frac{2}{p} + \frac{1}{q}$.
45. Find the least numbers by which 1800 should be multiplied so that it becomes a perfect square number. Also find the square root of the perfect square thus, obtained.
46. Find the Area of the given figure.
Radius $r = 3.5$ cm.



47. Multiply: $(2x+5y)$ and $(3x-4y)$.
48. Find the quadrants without plotting the points on a graph $(-3, 4)$, $(2, 0)$, $(-7, -3)$, $(5, 2)$.
49. Find the C.I for the data Principal = Rs 4000, $r = 5\%$ p.a, $n = 2$ years.
50. Divide : $(5y^3 - 25y^2 + 8y)$ by $5y$

PART - IV

VII. Answer the following.

2x10=20

51. a) Construct a quadrilateral DEAR, with $DE = 6$ cm, $EA = 5$ cm, $AR = 5.5$ cm $RD = 5.2$ cm and $DA = 10$ cm.
Also Find its area. (OR)
- b) Construct a quadrilateral NICE with $NI = 4.5$ cm, $IC = 4.3$ cm, $NE = 3.5$ cm, $NC = 5.5$ cm and $IE = 5$ cm.
Also find its area.
52. a) Draw a straight line by joining the points A $(-2, 6)$ and B $(4, -3)$
(OR)
- b) If the points P $(5,3)$, Q $(-3,3)$, R $(-3,-4)$ and 'S' form a rectangle, then find the co-ordinate of S.