



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

7x5=35

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

41. Arrange the following rational numbers in ascending and descending order.

$$\frac{-5}{12}, \frac{-11}{8}, \frac{-15}{24}, \frac{-7}{-9}, \frac{12}{36}$$

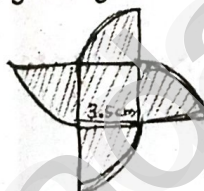
42. Simplify :
- $\left[ \frac{4}{3} - \left( \frac{-3}{2} \right) \right] + \left[ \frac{-5}{3} \div \frac{30}{12} \right] + \left[ \frac{12}{9} \times \frac{-27}{16} \right]$

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.
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- Radius
- $r = 3.5$
- cm.



47. Multiply:  $(2x+5y)$  and  $(3x-4y)$ .
48. Find the quadrats 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.