

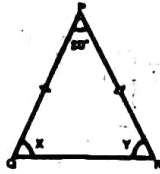


TVL&amp;M

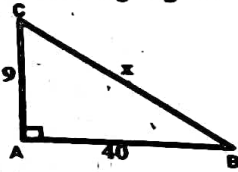
2

33) Find the compound interest on principal Rs.4000, at 5% p.a. for 2 years, compounded annually.

34) Find the values of  $x$  and  $y$  in the following figure



35)



Find the unknown side in the following triangle

36) Shanthy has 5 chudithar sets and 4 frocks. In how many possible ways, can she wear either a chudithar or a frock?

### Part - III

Answer any 8 questions of the following:

8×5=40

37) Write the following rational numbers in ascending and descending order

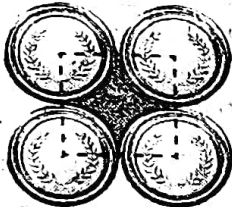
$$\frac{-3}{5}, \frac{7}{-10}, \frac{-15}{20}, \frac{14}{-30}, \frac{-8}{15}$$

38) Find the value of  $\sqrt{42.25}$

39) Solve for  $x$ : (i)  $\frac{2^{2x-1}}{2^{x+2}} = 4$

(ii)  $\frac{5^5 \times 5^{-4} \times 5^x}{5^{12}} = 5^{-5}$

40)

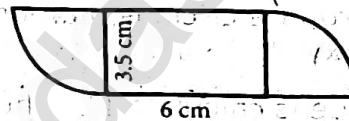


Four identical medals, each of diameter 7 cm are placed as shown in the figure. Find the area of the shaded region

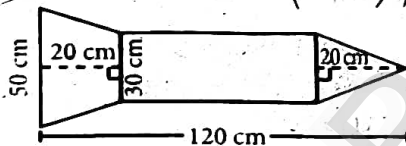
between the medals ( $\pi = \frac{22}{7}$ )

41) Find the perimeter and

area of the figure ( $\pi = \frac{22}{7}$ )



42)



A rocket drawing has the measures as given in the figure. Find its area.

43) Expand:  $x^2(x+y+z) + y^2(x+y+z) + z^2(x-y-z)$

44) Divide:  $81(p^4q^2r^3 + 2p^3q^3r^2 - 5p^2q^2r^2)$  by  $(3pqr)^2$

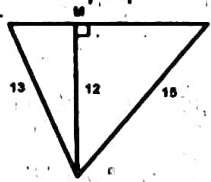
45) The income of a person is increased by 10% and then decreased by 10%. Find the change in his income.

46) The population of a town is increasing at the rate of 6% p.a. It was 238765 in the year 2018. Find the population in the year 2016 and 2020.

47) Find LM, MN, LN

and also the

area of  $\triangle LON$ .



48) In class VIII, a math club has four members M, A, T and H. Find the number of different ways, the club can elect (i) a leader (ii) a leader and an assistant leader

### Part - IV

8 Mark questions:

2×8=16

49) 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 trapezium BOAT in which  $BO$  is parallel to  $TA$ ,  $BO = 7$  cm,  $OA = 6$  cm,  $BA = 10$  cm and  $TA = 6$  cm. Also find its area.

50) a) Plot the following points in a graph sheet  $A(5, 2)$ ,  $B(0, -5)$ ,  $C(-1, -1)$ ,  $D(8, -4)$ ,  $E(-2, 4)$ ,  $F(-4, 0)$  (OR)

b) Draw the graph of  $x = 5$ .