





Q.3 : A) Solve any one of the following. (Activity)

1) The figure of a plot and its measures are given.

l(LM) = 60 m. l(MN) = 60 m. l(LN) = 96 m. l(OP) = 70 m. find the area of the plot.



Ans : In the figure we get two triangles, ΔLMN and ΔLNO . We know the lengths of all sides of ΔLMN so by using Heron's formula we will find the area of this triangle. In ΔLNO , side LN is the base and l(OP) is the height. We will find the area of ΔLNO .

m

Semiperimeter of ΔLMN ,

$$s = \frac{60+60+96}{2} = \frac{216}{2} = 108 \text{ m}$$

 \therefore Area of Δ LMN

 $=\sqrt{12\times9\times48\times10^{-3}}$

$$=\sqrt{108(108-60)(108-60)(108-96)}$$

$$=\sqrt{108\times48\times12}$$

$$A(\Delta LMN) = 12 \times 3 \times$$
 = sq

$$A(\Delta LNO) = \frac{1}{2} base \times height$$

$$=\frac{1}{2}\times96\times70$$

×12

$$= 96 \times$$
 $= 3360 \text{ sq m}$

Area of $\Box LMNO = A(\Delta LMN) + A(\Delta LNO)$

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Q.4 : Solve any one of the following.

1) In figure. Find the area of the shaded region. [Use $\pi = 3.14$]



2) Adjacent figure is a polygon ABCDE. All given measures are in metre. Find the area of the given figure.



Q.5 : Solve any one of the following.

1) The diagonal of a quadrilateral is 20m in length and the perpendiculars to it from the opposite vertices are 8.5m and 11m. Find the area of the quadrilateral.



2) Area of a rhombus is 96 sq cm. One of the diagonals is 12 cm find the length of its side.

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