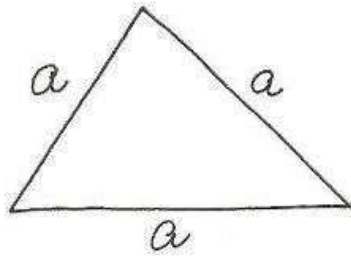


①



Sol - $s = \frac{a+a+a}{2}$
 $= \frac{3a}{2}$ units

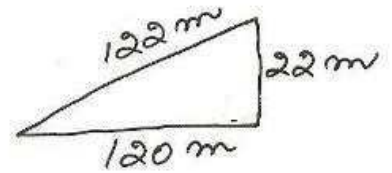
area = $\sqrt{s(s-a)(s-b)(s-c)}$
 $= \sqrt{\frac{3a}{2}(\frac{3a}{2}-a)(\frac{3a}{2}-a)(\frac{3a}{2}-a)}$
 $= \sqrt{\frac{3a}{2}(\frac{3a-2a}{2})(\frac{3a-2a}{2})(\frac{3a-2a}{2})}$
 $= \sqrt{\frac{3a \times a}{2} \times \frac{a \times a}{2}}$

$= \frac{\sqrt{3}}{2 \times 2} a \times a$
 $= \frac{\sqrt{3}}{4} a^2$ Sq. units

Per. of equi. $\Delta = 180$ cm
 $3a = 180$
 $\Rightarrow a = \frac{180}{3}$
 $= 60$ cm

area = $\frac{\sqrt{3}}{4} \times 60 \times 60$
 $= 900\sqrt{3}$ cm²

②



area of wall

$s = \frac{a+b+c}{2}$
 $= \frac{22+120+122}{2}$
 $= \frac{264}{2}$
 $= 132$ m

area = $\sqrt{s(s-a)(s-b)(s-c)}$
 $= \sqrt{132(132-22)(132-120)(132-122)}$
 $= \sqrt{132 \times 110 \times 12 \times 10}$
 $= \sqrt{11 \times 12 \times 11 \times 10 \times 12 \times 10}$
 $= 10 \times 11 \times 12$
 $= 1320$ m²

cost adv per Sq m per year
 $= ₹ 5000$

cost of adv on wall for 1 year
 $= ₹ (1320 \times 5000)$

cost of adv on wall
 for 3 months = $\frac{1320 \times 5000}{12} \times 3$
 $= ₹ 1650,000$