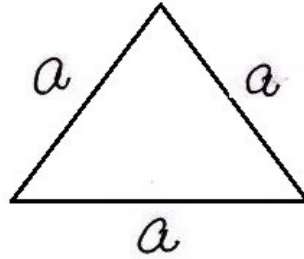


①



Solution $s = \frac{a+a+a}{2}$
 $= \frac{3a}{2}$

area = $\sqrt{s(s-a)(s-b)(s-c)}$
 $= \sqrt{\frac{3}{2}a \left(\frac{3}{2}a - a\right) \left(\frac{3}{2}a - a\right) \left(\frac{3}{2}a - a\right)}$
 $= \sqrt{\frac{3}{2}a \left(\frac{3a-2a}{2}\right) \left(\frac{3a-2a}{2}\right) \left(\frac{3a-2a}{2}\right)}$
 $= \sqrt{\frac{3}{2}a \times \frac{a}{2} \times \frac{a}{2} \times \frac{a}{2}}$
 $= \frac{\sqrt{3}}{4} a^2$ Square units

Perimeter of equilateral $\Delta = 180\text{cm}$

3 Side = 180

\Rightarrow Side = 60cm

area = $\frac{\sqrt{3}}{4} \times 60 \times 60 = 900\sqrt{3} \text{ cm}^2$