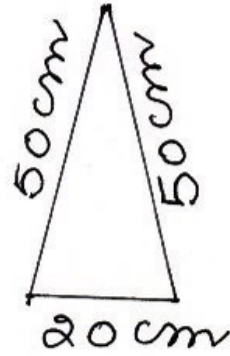


$$\begin{aligned} \textcircled{6} \text{ semiperimeter } (s) &= \frac{a+b+c}{2} \\ &= \frac{20+50+50}{2} \\ &= \frac{120}{2} \\ &= 60 \text{ cm} \end{aligned}$$



area of 1 triangular piece

$$\begin{aligned} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{60(60-20)(60-50)(60-50)} \\ &= \sqrt{60 \times 40 \times 10 \times 10} \\ &= 10 \sqrt{6 \times 10 \times 2 \times 2 \times 10} \\ &= 2 \times 10 \times 10 \sqrt{6} \\ &= 200 \sqrt{6} \text{ cm}^2 \end{aligned}$$

area of cloth of each colour

$$\begin{aligned} &= 5 \times 200 \sqrt{6} \text{ cm}^2 \\ &= 1000 \sqrt{6} \text{ cm}^2 \end{aligned}$$