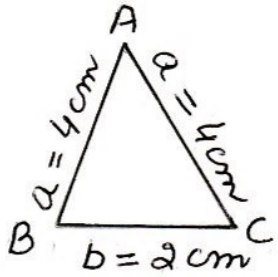
8.



area of isosceles Δ

$$= \frac{b}{4}\sqrt{4a^2 - b^2}$$

$$= \frac{2}{4}\sqrt{4 \times 4^2 - 2^2}$$

$$= \frac{1}{2}\sqrt{64 - 4}$$

$$= \frac{1}{2}\sqrt{60}$$

$$= \frac{1}{2} \times \sqrt{2^2 \times 15}$$

$$= \frac{2}{2}\sqrt{15}$$

$$= \sqrt{15}\ cm^2 \qquad (A)$$

or use heron's formula

9. let $a = 6\,cm$, $b = 8\,cm$, $c = 10\,cm$

$$s = \frac{a+b+c}{2} = \frac{6+8+10}{2} = \frac{24}{2} = 12\,cm$$

area of $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$

$$= \sqrt{12(12-6)(12-8)(12-10)}$$

$$= \sqrt{12 \times 6 \times 4 \times 2}$$

$$= \sqrt{4 \times 3 \times 3 \times 2 \times 4 \times 2}$$

$$= 2 \times 3 \times 4$$

$$= 24\,cm^2$$

cost $= 24 \times \frac{9}{100}$

= Rs 2.16