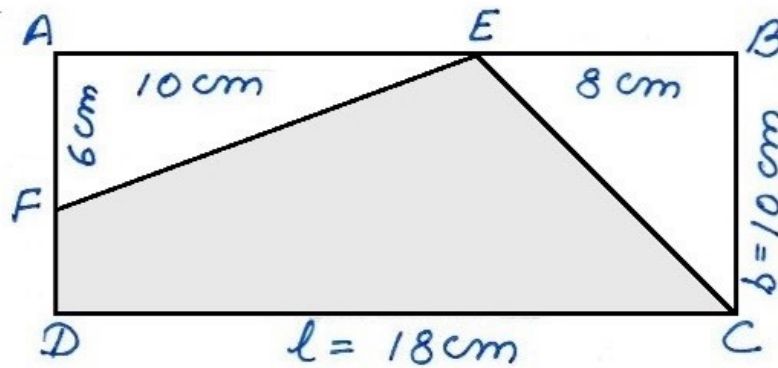


10①



area of shaded portion

$$= \text{ar}(\text{rect } ABCD) - \text{ar}(\triangle EAF) - \text{ar}(\triangle EBC)$$

$$= lb - \frac{1}{2} \times AF \times AE - \frac{1}{2} \times BE \times BC$$

$$= 18 \times 10 - \frac{1}{2} \times 6 \times 10 - \frac{1}{2} \times 8 \times 10$$

$$= 180 - 30 - 40$$

$$= 180 - 70$$

$$= 110 \text{ cm}^2$$

10② area of shade portion

$$= \text{area of Square} - \text{ar}(\triangle I) - \text{ar}(\triangle II) - \text{ar}(\triangle III)$$

$$= s^2 - \frac{1}{2} TS \times SU - \frac{1}{2} \times UR \times QR - \frac{1}{2} \times PQ \times PS$$

$$= 20^2 - \frac{1}{2} \times 10 \times 10 - \frac{1}{2} \times 10 \times 20 - \frac{1}{2} \times 20 \times (20 - 10)$$

$$= 400 - 50 - 100 - 100$$

$$= 400 - 250$$

$$= 150 \text{ cm}^2$$

