

(5)

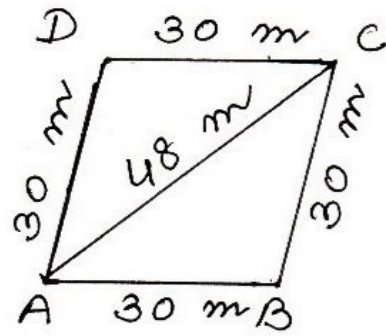
$\triangle ABC$

semiperimeter (s)

$$= \frac{30 + 30 + 48}{2}$$

$$= \frac{108}{2}$$

$$= 54 \text{ m}$$



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

$$= \sqrt{54(54-30)(54-30)(54-48)}$$

$$= \sqrt{54 \times 24 \times 24 \times 6}$$

$$= 24 \sqrt{3 \times 3 \times 6 \times 6}$$

$$= 24 \times 3 \times 6$$

$$= 432 \text{ m}^2$$

area of rhombus shaped field

$$= 432 \times 2$$

$$= 864 \text{ m}^2$$

(*)

$$\text{area 1 cow can graze} = \frac{864}{18}$$

$$= 48 \text{ m}^2$$

* diagonal divides a \triangle into 2 \triangle s
equal in area