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Length of the diagonal,  $d = 24$  m

Length of the perpendiculars,  $h_1$  and  $h_2$ , from the opposite vertices to the diagonal are  $h_1 = 8$  m and  $h_2 = 13$  m

$$\begin{aligned}\text{Area of the quadrilateral} &= \frac{1}{2}d(h_1 + h_2) \\ &= \frac{1}{2}(24\text{m}) \times (13\text{m} + 8\text{m}) \\ &= \frac{1}{2}(24\text{m})(21\text{m}) \\ &= 252\text{m}^2\end{aligned}$$

Thus, the area of the field is  $252\text{ m}^2$ .

**Question 5:**

The diagonals of a rhombus are 7.5 cm and 12 cm. Find its area.

Answer:

$$\text{Area of rhombus} = \frac{1}{2} (\text{Product of its diagonals})$$

Therefore, area of the given rhombus

$$\begin{aligned}&= \frac{1}{2} \times 7.5\text{ cm} \times 12\text{ cm} \\ &= 45\text{ cm}^2\end{aligned}$$

**Question 6:**



Find the area of a rhombus whose side is 6 cm and whose altitude is 4 cm. If one of its diagonals is 8 cm long, find the length of the other diagonal.

Answer:

Let the length of the other diagonal of the rhombus be  $x$ .

A rhombus is a special case of a parallelogram.

The area of a parallelogram is given by the product of its base and height.

Thus, area of the given rhombus = Base  $\times$  Height =  $6\text{ cm} \times 4\text{ cm} = 24\text{ cm}^2$



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