## Answer on Question \#43915-Math-Geometry

The cost of levelling a rectangular field at the rate of 85 paise per square meter is Rs 624.75 . Find the perimeter of the field if its sides are in the ratio 5:3.

## Solution

Let sides are $5 x$ and $3 x$.
85 paise per square meter is $\frac{85}{10000}$ paise per square centimeter.
The cost of leveling is

$$
5 x \cdot 3 x \cdot \frac{85}{10000}=624.75 \rightarrow x=70 \mathrm{~cm} .
$$

Perimeter is

$$
2(5 x+3 x)=2(350+210)=1120 \mathrm{~cm}=11.2 \mathrm{~m} .
$$

Answer: 11.2 m .

