

### Conditions

if length of a rectangular is 5 times its width and its area is 180 m<sup>2</sup> .find its perimeter?

### Solution

Let the width will be  $x$ , then length is  $5x$ .

We know that the area is:

$$x \cdot 5x = 180$$

Then

$$x^2 = 36$$

$$x = 6$$

The perimeter is 2 times width + 2 times length:

$$2x + 10x = 12x = 72$$

**Answer: 72**