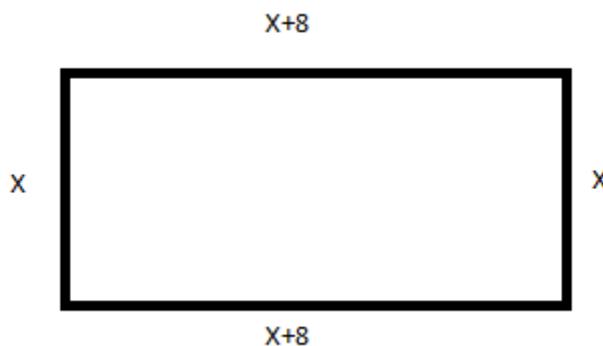


**Answer on Question #46867 – Math – Algebra
Question**

The length of the rectangle is 8 metres longer than the width. If the perimeter of the rectangle is 402 metres what are the dimensions of the rectangle?

Solution

Our rectangle is shown below:



Let the smaller side of the rectangle be equal to x meters.

Then the side, which is 8 meters longer, will be $x + 8$ meters.

Perimeter is equal to the sum of all the sides of the rectangle.

$$x + x + (x + 8) + (x + 8) = 402$$

$$2x + 2x + 16 = 402$$

$$4x = 402 - 16$$

$$4x = 386$$

$$x = \frac{386}{4}$$

$$x = 96.5$$

$$x + 8 = 96.5 + 8$$

$$x + 8 = 104.5$$

Answer:

Sides of the rectangle are equal to 96.5 and 104.5 meters.