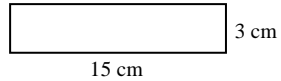


Problem:

Suppose the dimensions of the rectangle below are doubled to create a new rectangle.

What is the perimeter of the new rectangle?
Explain your answer.



Answer:

72 cm

Since each dimension is doubled, the new rectangle will be similar to the original. As a result, the perimeter of the new rectangle will be double that of the original. The original perimeter is 36 cm so the perimeter of the new rectangle is 72 cm.

or

The dimensions are doubled to create the new rectangle. It will have dimensions of 30 cm and 6 cm. This makes the perimeter of the new rectangle 72 cm.