

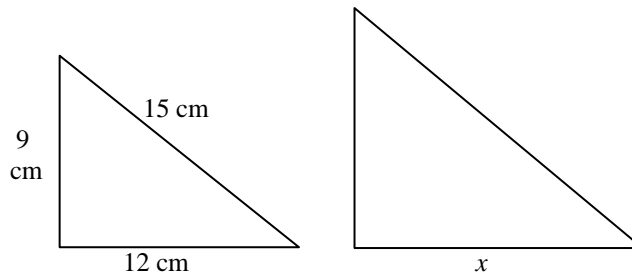
Problem:

The perimeters of two similar triangles are 30 cm and 40 cm.
If one side of the smaller triangle is 12 cm, how long is the corresponding side of the larger triangle?

Provide the work that shows how you arrived at your answer.

Answer:

16 cm



$$\frac{30}{40} = \frac{12}{x} \quad \text{or} \quad \frac{12}{30} = \frac{x}{40}$$

$$30x = (12)(40) \quad (12)(40) = 30x$$

$$30x = 480 \quad 480 = 30x$$

$$30x/30 = 480/30 \quad 480/30 = 30x/30$$

$$x = 16$$

$$x = 16$$