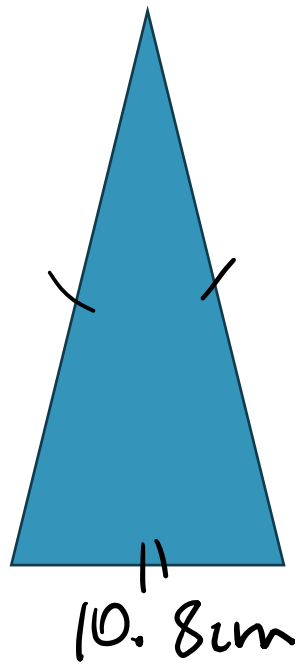


- c) An isosceles triangle with a perimeter of 50.6 cm has one short side and two equal longer sides. The short side is 10.8 cm. Write and solve an equation to determine the length of one longer side?



Perimeter = 50.6 cm       $L =$  length of one longer side

$$50.6 \text{ cm} - 10.8 \text{ cm} = 39.8 \text{ cm}$$

$$\frac{39.8 \text{ cm}}{2} = 19.9 \text{ cm}$$

measuremen  
for both equal  
sides

measurement  
for 1 side

Equation:  $50.6 \text{ cm} = 10.8 \text{ cm} + \frac{L}{2}$   
 $-10.8 \text{ cm} \quad -10.8 \text{ cm}$

$$2 \times 39.8 \text{ cm} = \frac{L}{2} \times 2$$

$$79.6 \text{ cm} = L$$

What did this student do wrong?