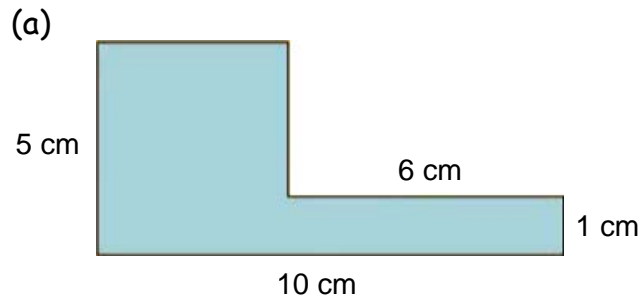


Perimeter of Composite 2D Shapes

## 1. Determine the Perimeter of a Composite Shape.

Note: Find all the missing side lengths first then add all the sides

- Find missing vertical lengths using given vertical lengths
- Find missing horizontal lengths using given horizontal lengths
- Use Pythagorean Theorem to find missing side length of a right triangle

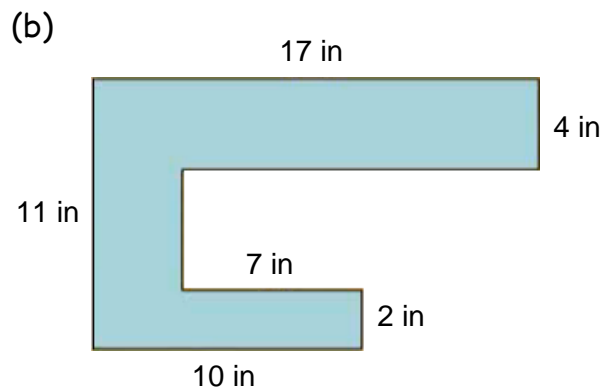


$$\text{Horizontal Length} = 10 - 6 = 4 \text{ cm}$$

$$\text{Vertical Length} = 5 - 1 = 4 \text{ cm}$$

$$\begin{aligned} P_{\text{Total}} &= 5 + 10 + 1 + 6 + 4 + 4 \\ &= 30 \end{aligned}$$

The perimeter is 30 cm.

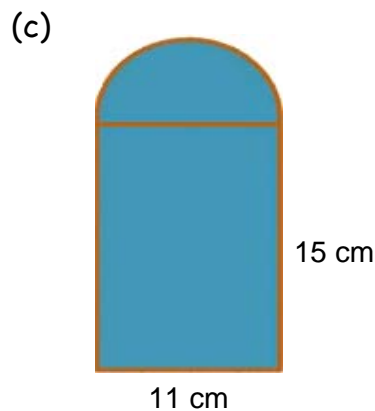


$$\text{Horizontal Length} = 17 - (10 - 7) = 14 \text{ in}$$

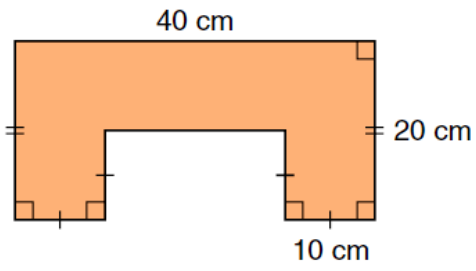
$$\text{Vertical Length} = 11 - (4 + 2) = 5 \text{ in}$$

$$\begin{aligned} P_{\text{Total}} &= 11 + 10 + 2 + 7 + 5 + 14 + 4 + 17 \\ &= 70 \end{aligned}$$

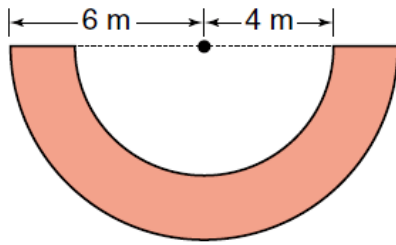
The perimeter is 70 in.



(d)



(e)



(f)

