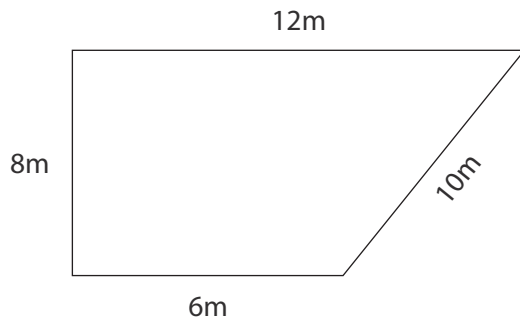
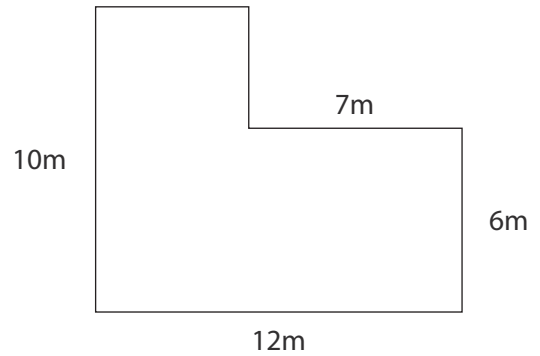


Perimeter of Compound Shapes – Puzzling Perimeters **Answers**

1. Find the perimeter of each shape.



$$8 + 12 + 10 + 6 = 36\text{m}$$



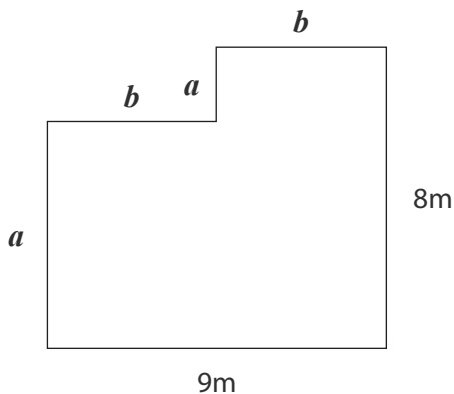
The width of the top is $12 - 7 = 5\text{m}$

The height of the missing side is $10 - 6 = 4\text{m}$

$$10 + 12 + 7 + 6 + 4 + 5 = 44\text{m}$$

2. Find the perimeter of each shape:

a.

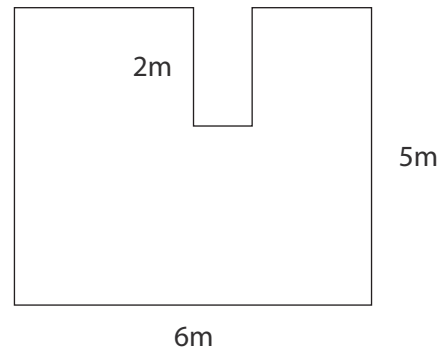


The two sides labelled a must add up to 8m.

The two sides labelled b must add up to 9m.

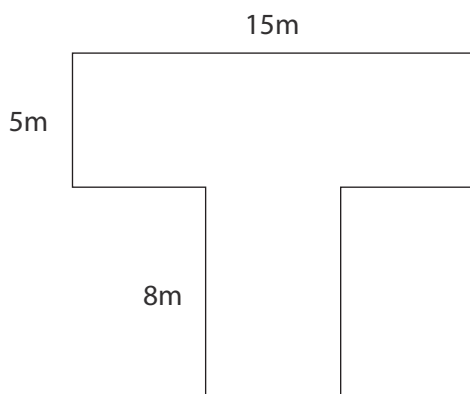
$$9 + 8 + 9 + 8 = 34\text{m}$$

b.



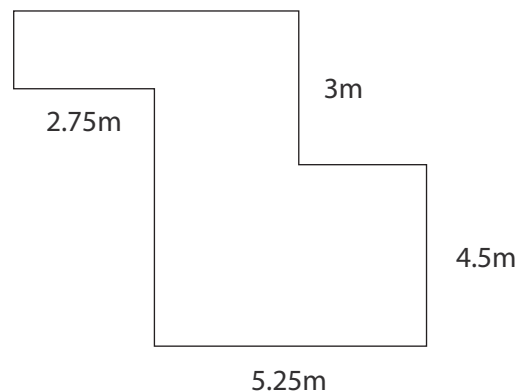
$$6 + 5 + 6 + 5 + 2 + 2 = 26\text{m}$$

c.



$$15 + 5 + 5 + 8 + 8 + 15 = 56\text{m}$$

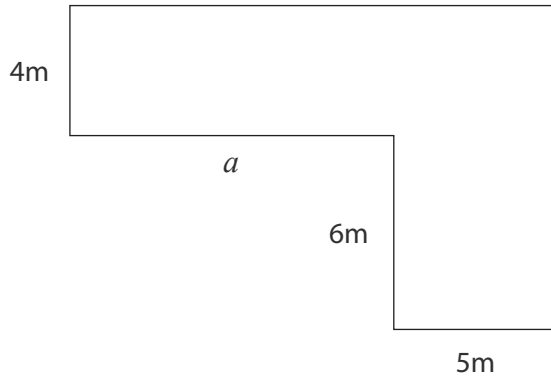
d.



$$5.25 + 2.75 + 5.25 + 2.75 + 3 + 4.5 + 3 + 4.5 = 31\text{m}$$

3. The perimeter of each shape is 50cm. Find the length of side a and side b .

a.

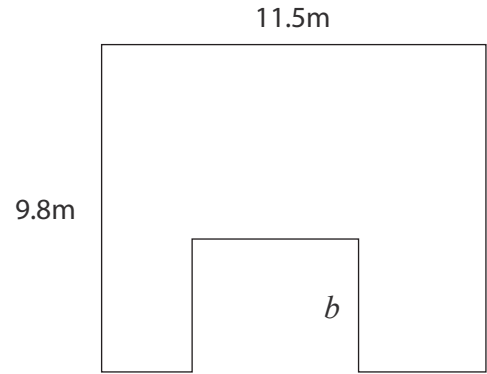


$$4 + 6 + 4 + 6 + 5 + 5 = 30$$

$$50 - 30 = 20$$

$$20 \div 2 = 10\text{m}$$

b.

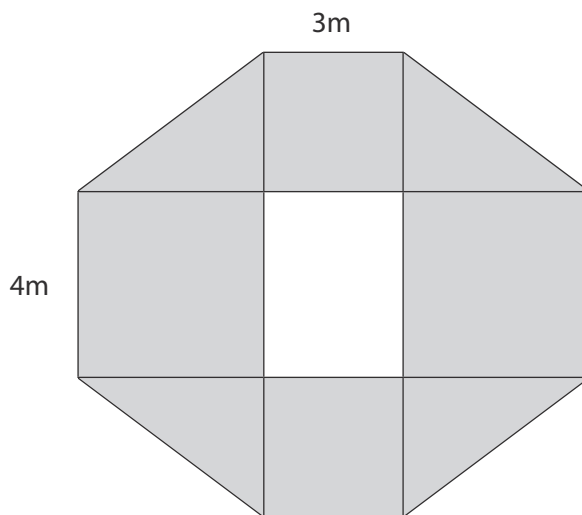


$$9.8 + 9.8 + 11.5 + 11.5 = 42.6$$

$$50 - 42.6 = 7.4$$

$$7.4 \div 2 = 3.7\text{m}$$

4. A shape is made from four squares and four identical triangles. If the perimeter of the shape is 34m, what is the length of the longest side of each triangle?

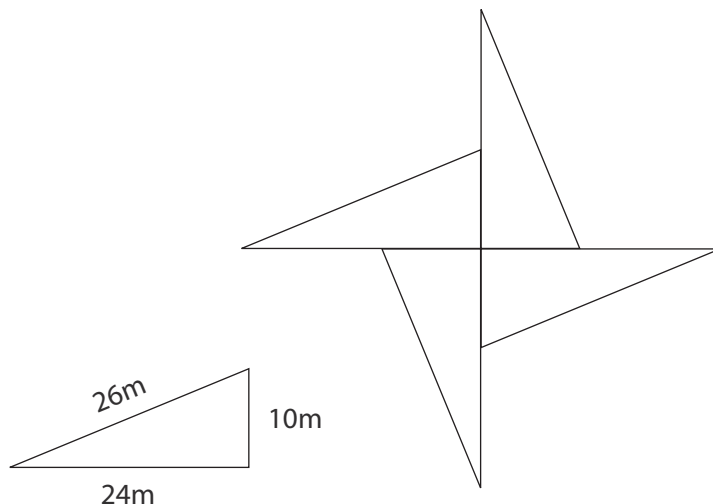


$$4 + 4 + 3 + 3 = 14\text{m}$$

$$34 - 14 = 20\text{m}$$

$$20 \div 4 = 5\text{m}$$

5. A shape is made up of four identical triangles. The length of the sides of the triangles are given below. What is the perimeter of the shape?



$$26 - 10 = 16\text{m}$$

$$16 \times 4 + 26 \times 4 = 160\text{m}$$