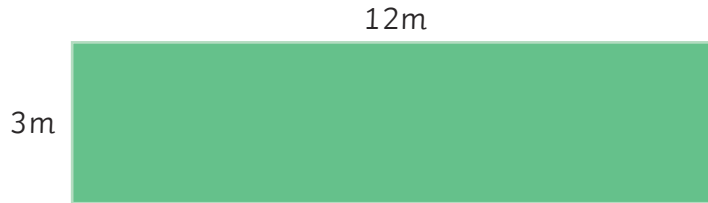


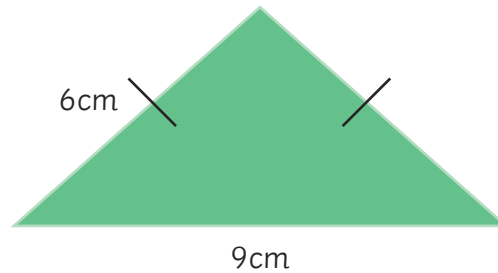
Perimeter

1. A square has one side measuring 10cm. Calculate the perimeter of the square.

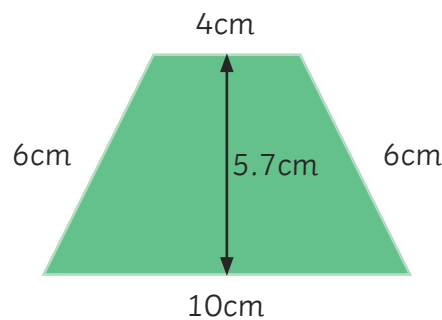
2. Zak says that the perimeter of the following rectangle is 15m. Explain why Zak is incorrect.



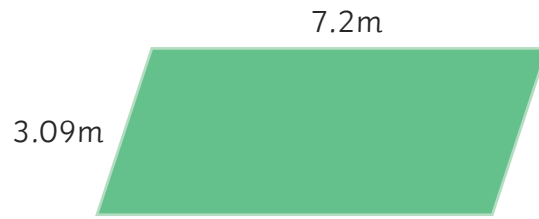
3. Explain why the perimeter of the shape is 21cm.



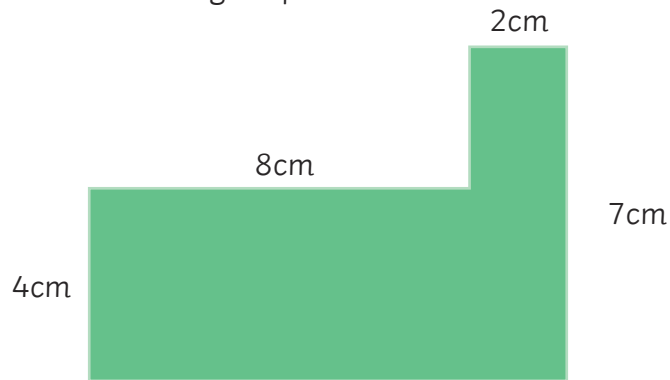
4. Rufus calculates the perimeter of the following shape. He gets an answer of 31.7cm. Is Rufus correct? Justify your answer.



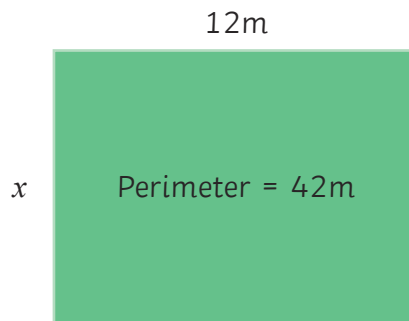
5. Calculate the perimeter of the following parallelogram.



6. Calculate the perimeter of the following shape.



7. Calculate the value of x .



8. There is an equilateral triangle inside the square. The perimeter of the equilateral triangle is 15cm . What is the perimeter of the square?



9. The length of a rectangle (l) is twice its width (w). If the perimeter is 12cm, what are the dimensions of the rectangle?

10. The perimeter of the following shape is 66cm. Find the value of the length and the width.



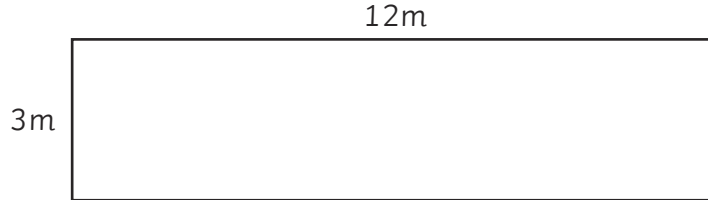


Perimeter - Answers

1. A square has one side measuring 10cm. Calculate the perimeter of the square.

$$10 + 10 + 10 + 10 = 40\text{cm}$$

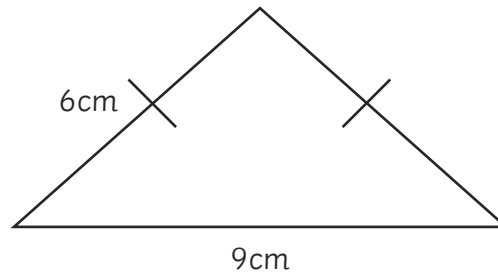
2. Zak says that the perimeter of the following rectangle is 15m. Explain why Zak is incorrect.



Zak is incorrect because he has only added one length and one width.

The correct answer is $12 + 3 + 12 + 3 = 30\text{m}$.

3. Explain why the perimeter of the shape is 21cm.

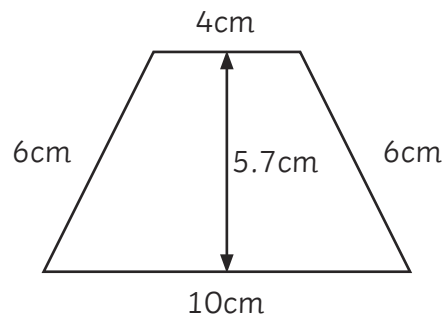


The perimeter of the shape is 21cm because the shape is an isosceles triangle, meaning there are two equal sides.

One of these equal sides has a length of 6cm, which means the other side is also 6cm.

$$9 + 6 + 6 = 21\text{cm}$$

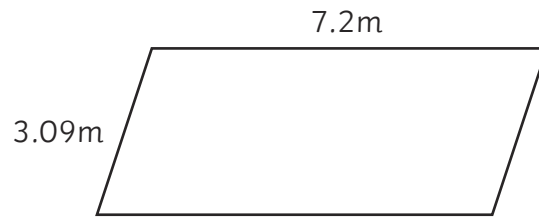
4. Rufus calculates the perimeter of the following shape. He gets an answer of 31.7cm. Is Rufus correct? Justify your answer.



Rufus is incorrect.

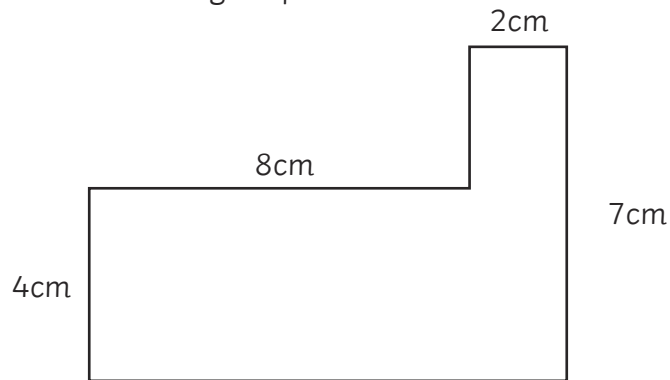
$$4 + 6 + 10 + 6 = 26\text{cm}$$

5. Calculate the perimeter of the following parallelogram.



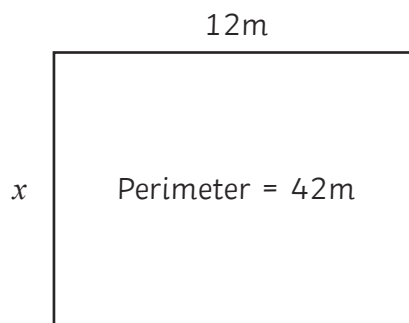
$$7.2 + 3.09 + 7.2 + 3.09 = 20.58\text{m}$$

6. Calculate the perimeter of the following shape.



$$2 + 7 + 10 + 4 + 8 + 3 = 34\text{cm}$$

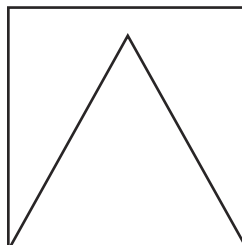
7. Calculate the value of x .



$$42 - 12 - 12 = 18$$

$$18 \div 2 = 9\text{m}$$

8. There is an equilateral triangle inside the square. The perimeter of the equilateral triangle is 15cm. What is the perimeter of the square?



$$15 \div 3 = 5\text{cm}$$

$$5 \times 4 = 20\text{cm}$$

9. The length of a rectangle (l) is twice its width (w). If the perimeter is 12cm, what are the dimensions of the rectangle?

$$2l + 2w = 12$$

$$2l + l = 12$$

$$3l = 12$$

$$l = 4$$

The length is 4cm.

The width is 2cm.

10. The perimeter of the following shape is 66cm. Find the value of the length and the width.



$$5x + 5x + x + 6 + x + 6 = 66$$

$$12x + 12 = 66$$

$$12x = 54$$

$$x = 4.5$$

$$\text{Length} = 5 \times 4.5 = 22.5\text{cm}$$

$$\text{Width} = 4.5 + 6 = 10.5\text{cm}$$

