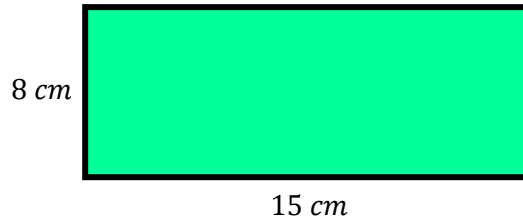


Perimeter

1. Here is a rectangle.



Work out the perimeter of the rectangle.
State the units.

$$8 + 8 + 15 + 15 = 46 \text{ cm}$$

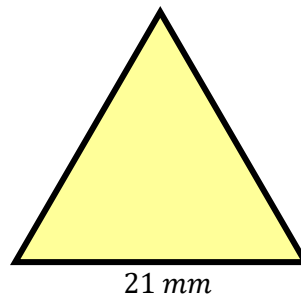
(2 marks)

2. Work out the perimeter of a square with side length of 9 cm.

$$9 + 9 + 9 + 9 = 36 \text{ cm}$$

(2 marks)

3. Below is an equilateral triangle.

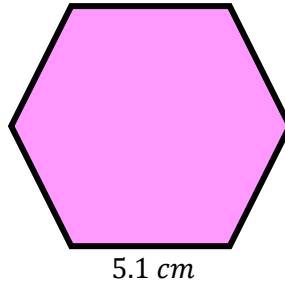


$$21 + 21 + 21 = 63 \text{ cm}$$

(2 marks)

Perimeter

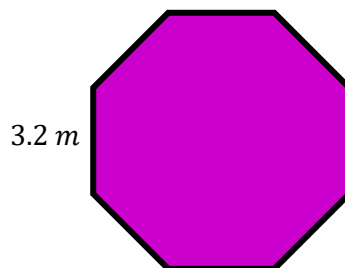
4. Below is a regular hexagon.
Find the perimeter.



$$5.1 \times 6 = 30.6 \text{ cm}$$

(2 marks)

5. Here is a regular octagon.



$$3.2 \times 8 = 25.6 \text{ cm}$$

(2 marks)

Perimeter

6. A rectangle has a perimeter of 16 *cm*.
The length of the rectangle is 6 *cm*.
What is the width of the rectangle?

$$16 - 6 - 6 = 4 \text{ cm}$$

$$4 \div 2 = 2 \text{ cm}$$

(2 marks)

7. A square has a perimeter of 30 *cm*.
What is the length of the square?

$$30 \div 4 = 7.5 \text{ cm}$$

(2 marks)

8. A regular pentagon has a perimeter of 31 *cm*.
What is the length of the pentagon?

$$31 \div 5 = 6.2 \text{ cm}$$

(2 marks)

9. A rectangle has a perimeter of 24 *cm*.
Find a possible length and width of the rectangle.

$$\text{Length} = 10 \text{ cm}, \text{Width} = 2 \text{ cm}$$

$$\text{Length} = 5 \text{ cm}, \text{Width} = 7 \text{ cm}$$

$$\text{Length} = 8 \text{ cm}, \text{Width} = 4 \text{ cm}$$

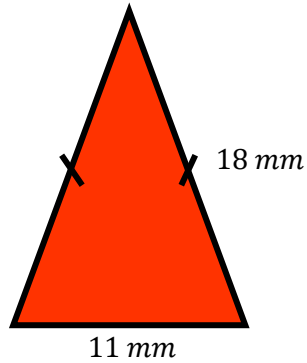
$$\text{Length} = 1 \text{ cm}, \text{Width} = 11 \text{ cm}$$

$$\text{Length} = 3 \text{ cm}, \text{Width} = 9 \text{ cm}$$

(3 marks)

Perimeter

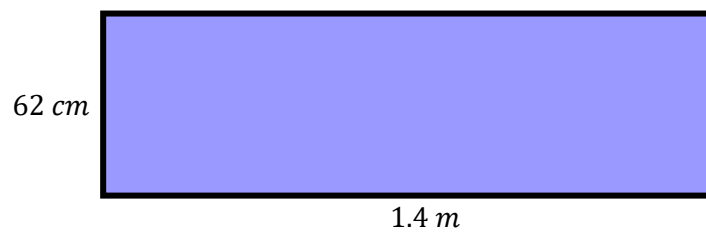
10. Find the perimeter of the triangle.



$$18 + 18 + 11 = 47 \text{ cm}$$

(3 marks)

11. Work out the perimeter of the rectangle.



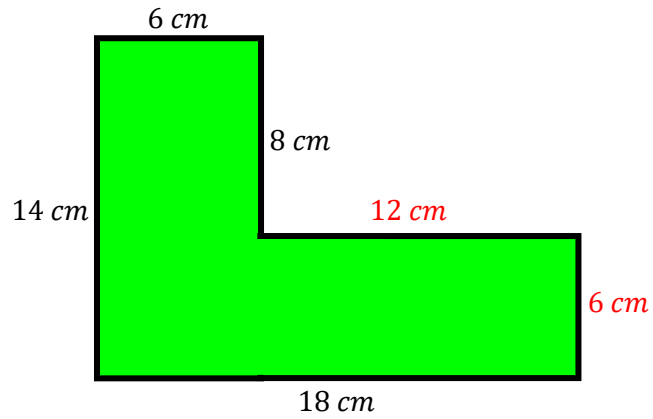
$$140 + 140 + 62 + 62 = 404 \text{ cm}$$

$$1.4 + 1.4 + 0.62 + 0.62 = 4.04 \text{ m}$$

(3 marks)

Perimeter

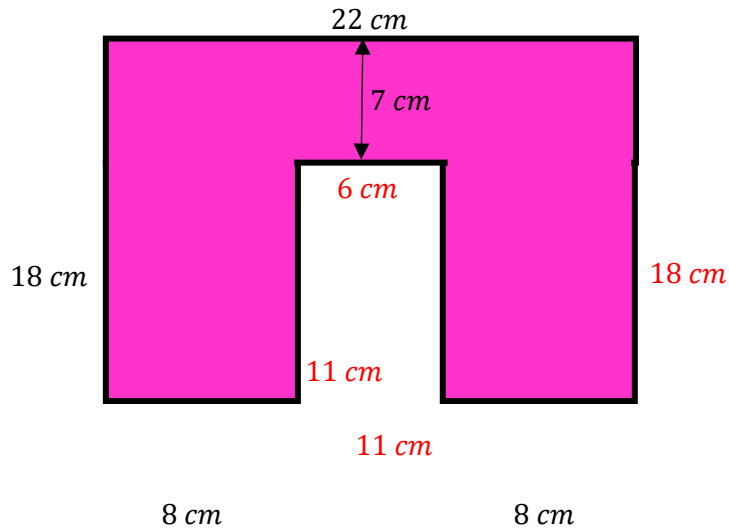
12. Calculate the perimeter.



$$14 + 6 + 8 + 12 + 6 + 18 = 64 \text{ cm}$$

(3 marks)

13. Work out the perimeter of the shape below

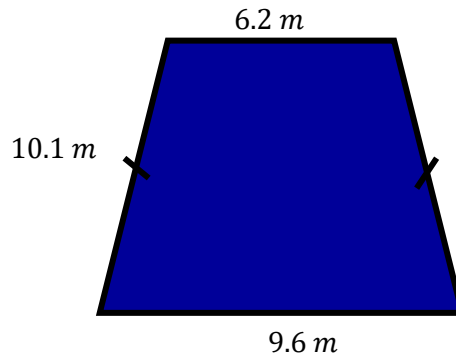


$$18 + 22 + 18 + 8 + 11 + 6 + 11 + 8 = 102 \text{ cm}$$

Perimeter

(4 marks)

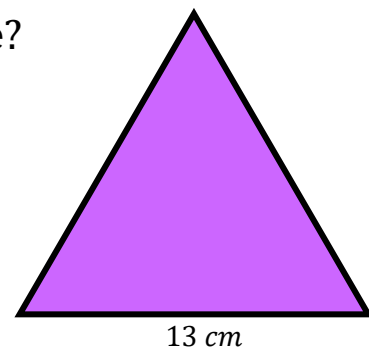
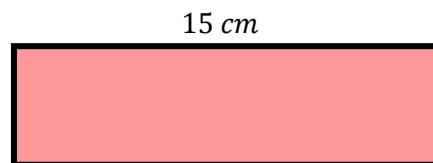
14. Work out the perimeter of the trapezium.



$$10.1 + 9.6 + 10.1 + 6.2 = 36 \text{ cm}$$

(3 marks)

15. The perimeter of the equilateral triangle is the same as the perimeter of the rectangle.
What is the width of the rectangle?

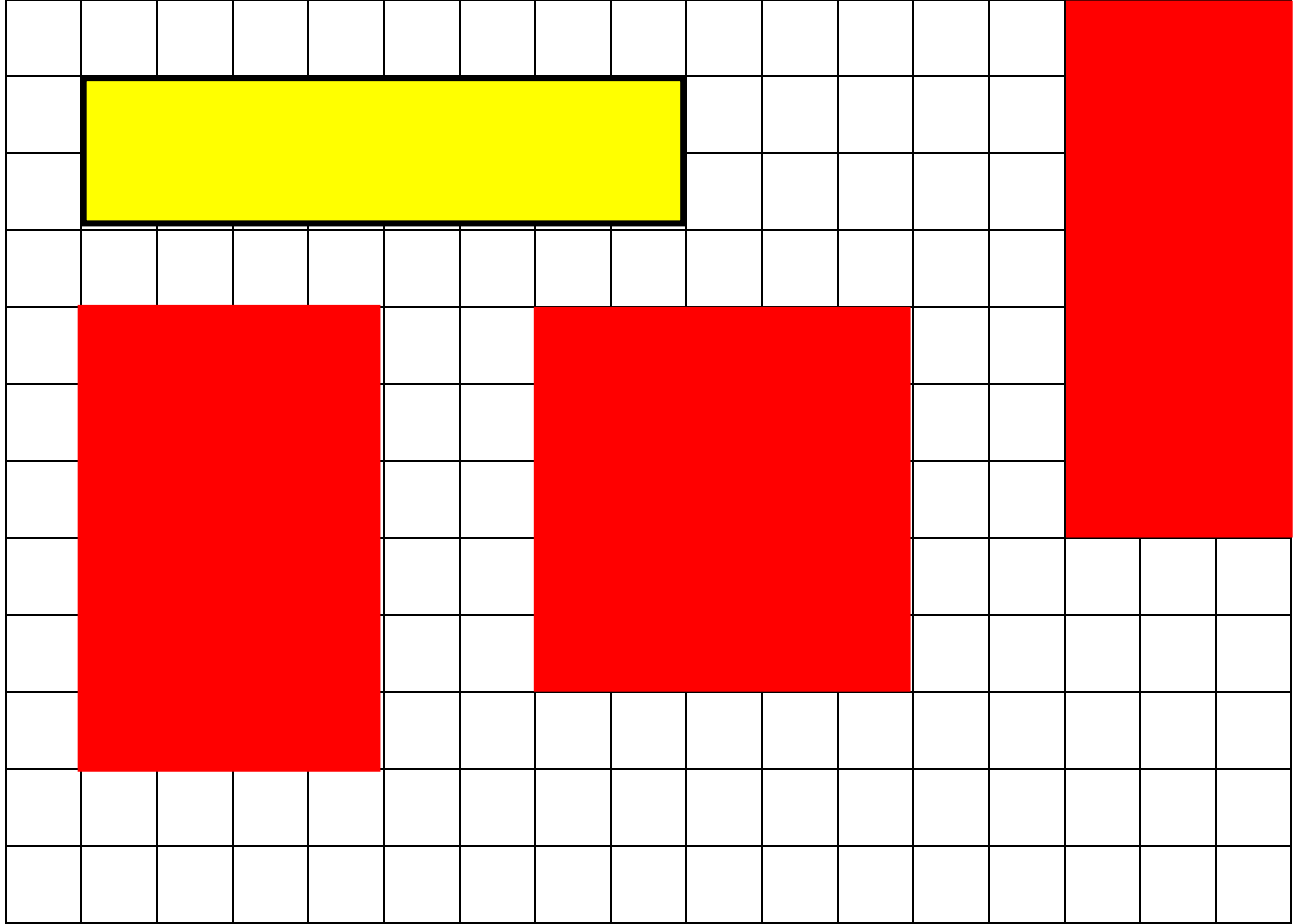


$$\begin{aligned} \text{Triangle: } 13 \times 3 &= 39 \text{ cm} \\ 39 - 15 - 15 &= 9 \text{ cm} \\ \text{Width: } 9 \div 2 &= 4.5 \text{ cm} \end{aligned}$$

(3 marks)

Perimeter

16. Below is a rectangle.



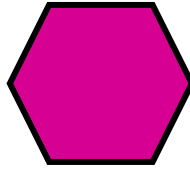
Draw another three rectangles with the same perimeter.

$$\text{Perimeter} = 20 \text{ cm}$$

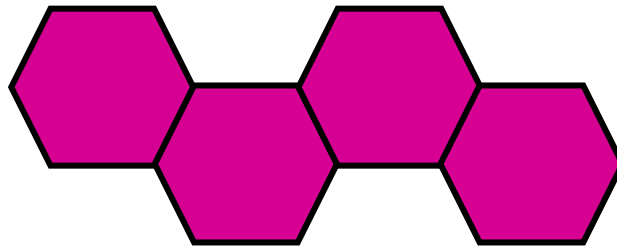
(5 marks)

Perimeter

17. Here is a regular hexagon with a perimeter of 57 cm.



Four of these hexagons are put together to make this shape.



Work out the perimeter of this shape.

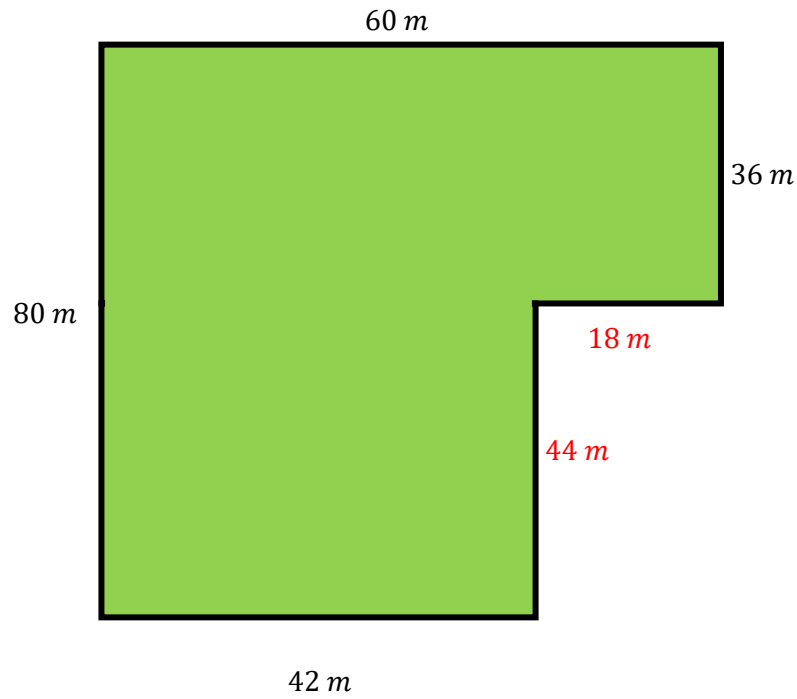
One side of the hexagon: $57 \div 6 = 9.5 \text{ cm}$

Perimeter: $18 \times 9.5 = 171 \text{ cm}$

(4 marks)

Perimeter

18. Below is a field.



A farmer wants to put a fence all the way around the field.

The fence costs £4.99 for 2 *metres* of fence.

How much will it cost for the farmer to put fence all the way around his field?

$$\text{Perimeter: } 60 + 36 + 18 + 44 + 42 + 80 = 280 \text{ m}$$

$$280 \div 2 = 140$$

$$140 \times 4.99 = \text{£}698.60$$

Perimeter

(5 marks)