



# Year 7 Knowledge Organiser

## PERIMETER



### Key Concept

#### 2D Shapes

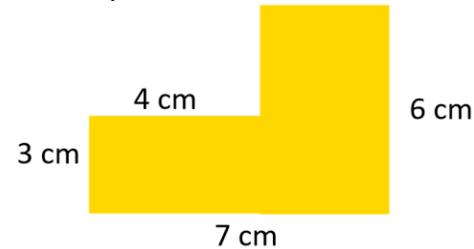
	Parallelogram
	Trapezium
	Right-angled triangle
	Isosceles triangle
	Equilateral triangle

### Key Words

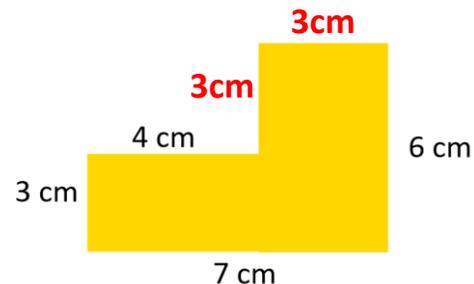
**Perimeter:** The distance around the outside of the shape.  
**Unit of measure:** This could be any unit of length cm, inch, m, foot, etc.  
**Dimensions:** The lengths which give the size of the shape.  
**Circumference:** The perimeter of a full circle.

### Examples

Find the perimeter



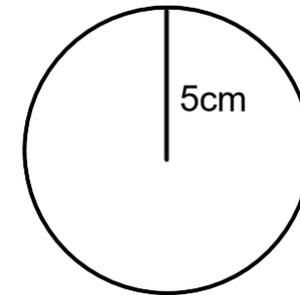
**Step 1** – Find the missing lengths.



**Step 2** – Add the lengths

$$3 + 4 + 3 + 3 + 6 + 7 = \underline{26 \text{ cm}}$$

Find the circumference to 1dp



Radius = 5, Diameter = 10

$$\text{Circumference} = \pi \times d$$

$$\text{Circumference} = \pi \times 10$$

$$\text{Circumference} = 31.4 \text{ cm}$$



Clip Numbers

534-550, 691, 822

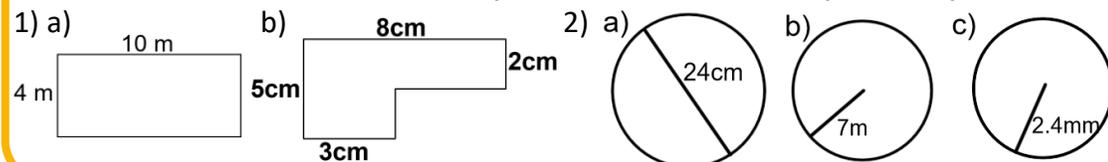
### Tip

- Always include units with your answer.
- If you don't have a calculator use pi as 3.14.

### Formula

$$\text{Circumference} = \pi d$$

**Questions** – Find the perimeter of each shape to 1dp



ANSWERS: 1) a) 28 m b) 26 cm 2) a) 75.4 cm b) 44.0 m c) 15.1 mm



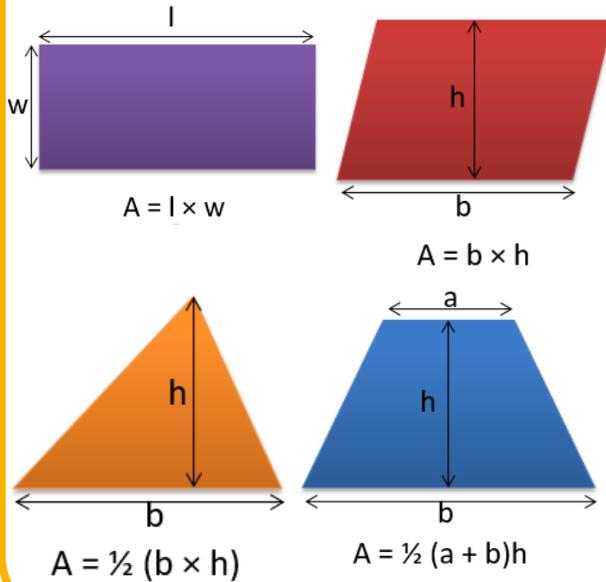
# Year 7 Knowledge Organiser

## AREA AND PERIMETER



### Key Concepts

#### Area



### Key Words

**Area:** The amount of square units that fit inside the shape.

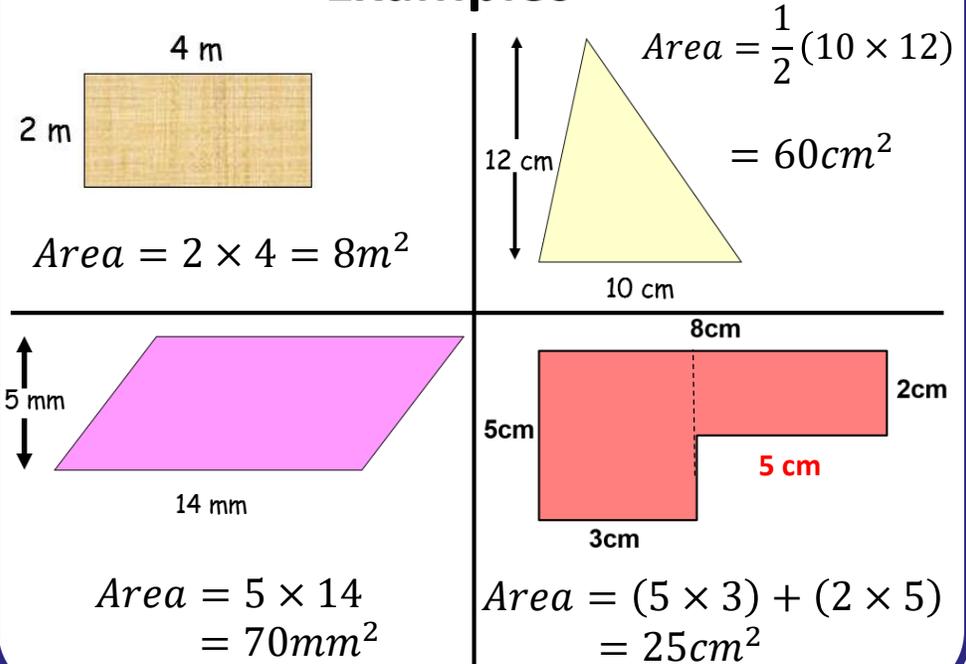
**Perimeter:** The distance around the outside of the shape.

**Dimensions:** The lengths which give the size of the shape.

**Shapes:**

Rectangle, Triangle, Parallelogram, Trapezium, Kite.

### Examples

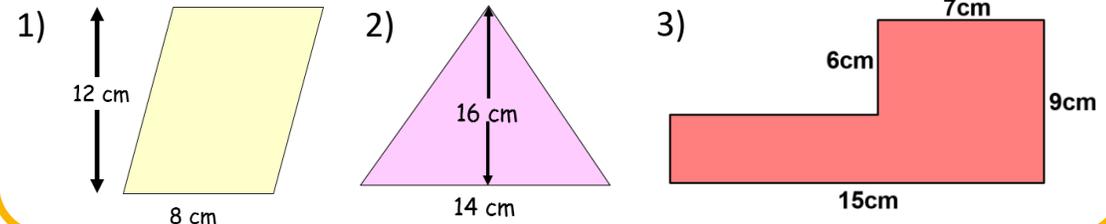


Clip Numbers  
554 – 559

### Tip

Always remember units. These units are squared for area.  $mm^2$ ,  $cm^2$ ,  $m^2$ , etc

### Questions – Find the area.



ANSWERS: 1)  $96cm^2$  2)  $112cm^2$  3)  $87cm^2$