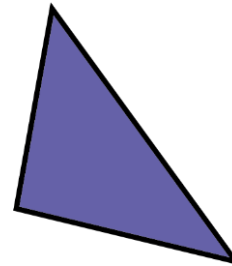
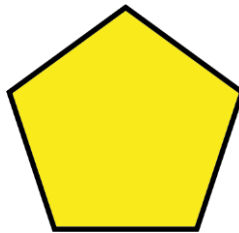
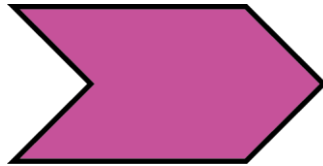
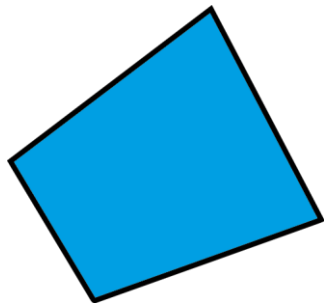


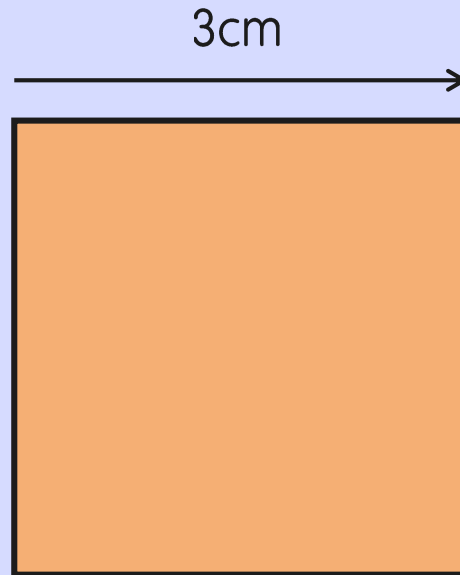
Shape Reasoning



Shape Perimeter



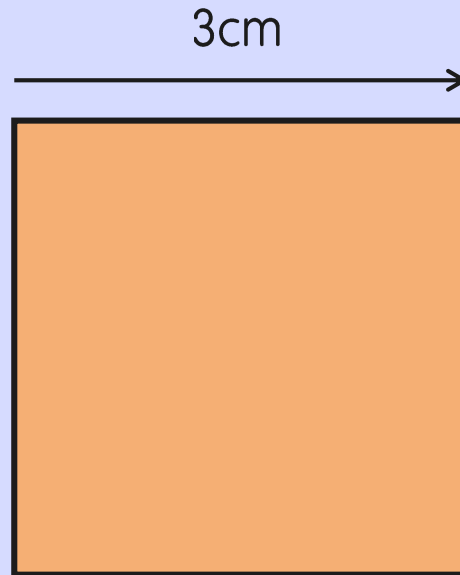
Work out the perimeter of this shape.



Shape Perimeter



Work out the perimeter of this shape.

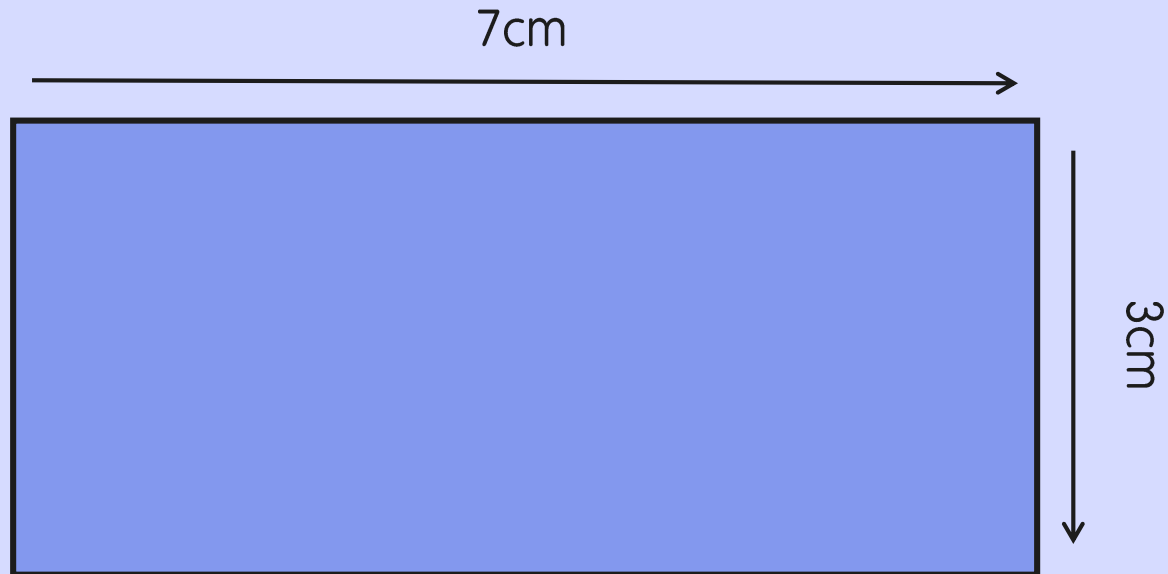


12cm

Shape Perimeter



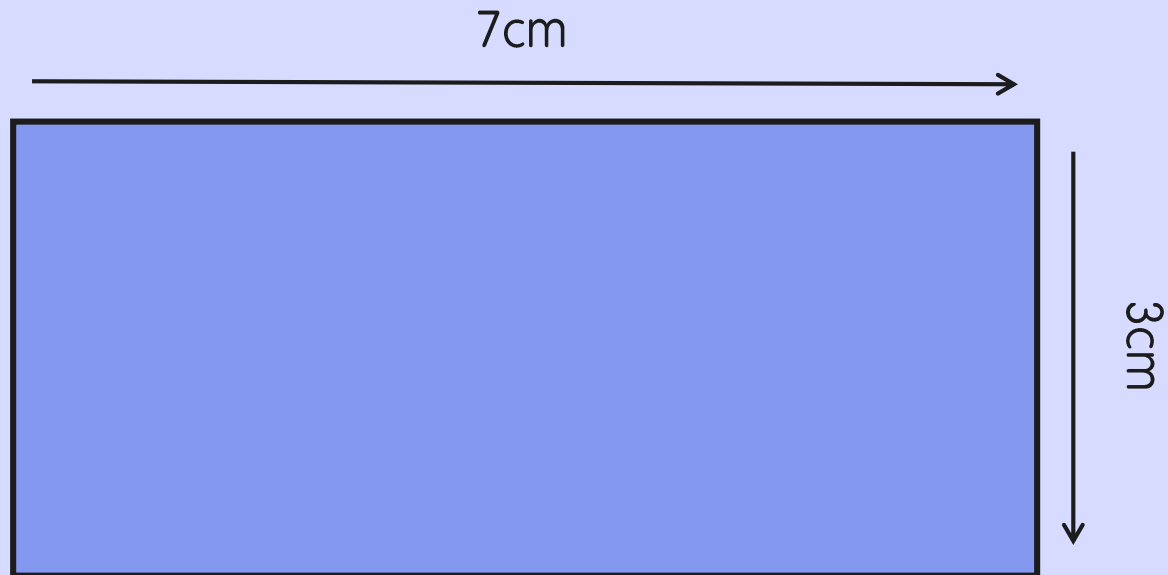
Work out the perimeter of this shape.



Shape Perimeter



Work out the perimeter of this shape.

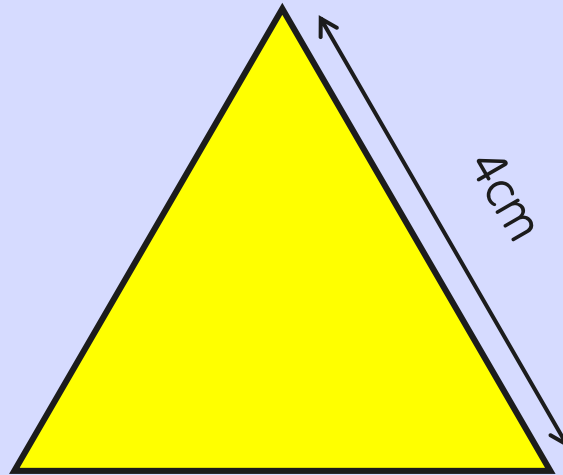


20cm

Shape Perimeter



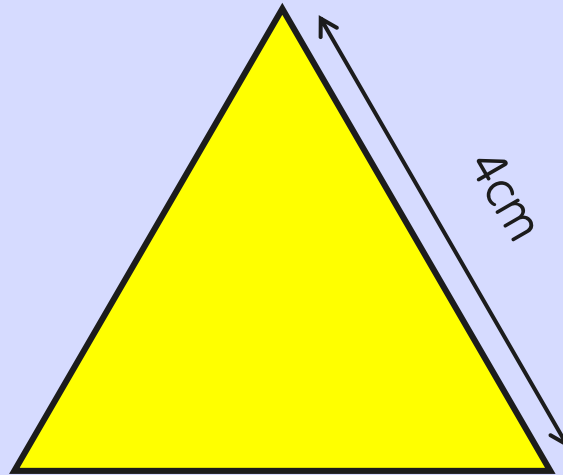
Work out the perimeter of this shape.



Shape Perimeter



Work out the perimeter of this shape.

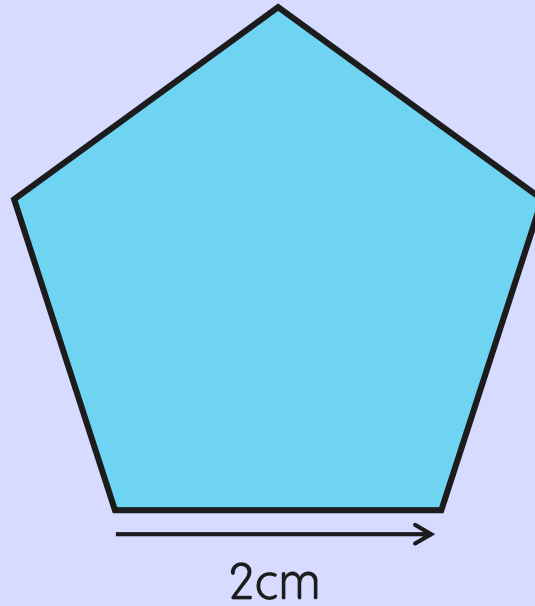


12cm

Shape Perimeter



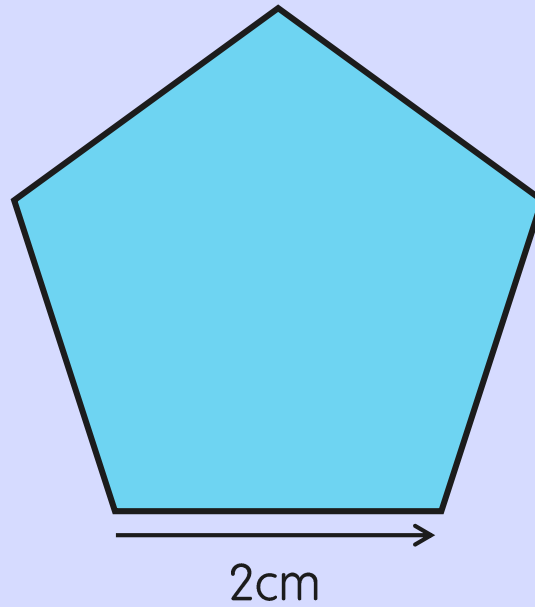
Work out the perimeter of this shape.



Shape Perimeter



Work out the perimeter of this shape.



10cm

What are Polygons?

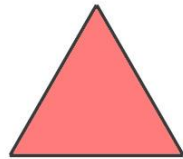


Polygons

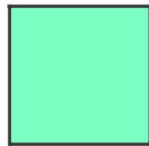
A plane shape (two-dimensional) with straight sides.

Examples: triangles, rectangles and pentagons.

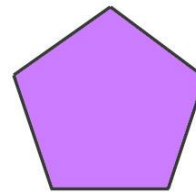
(Note: a circle is not a polygon because it has a curved side)



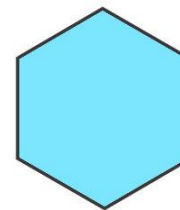
Triangle



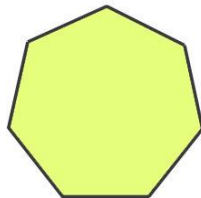
Quadrilateral



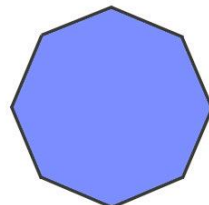
Pentagon



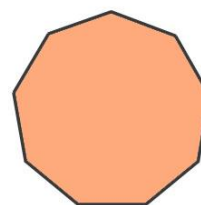
Hexagon



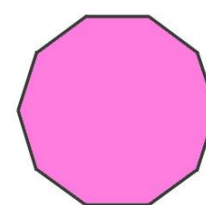
Heptagon



Octagon



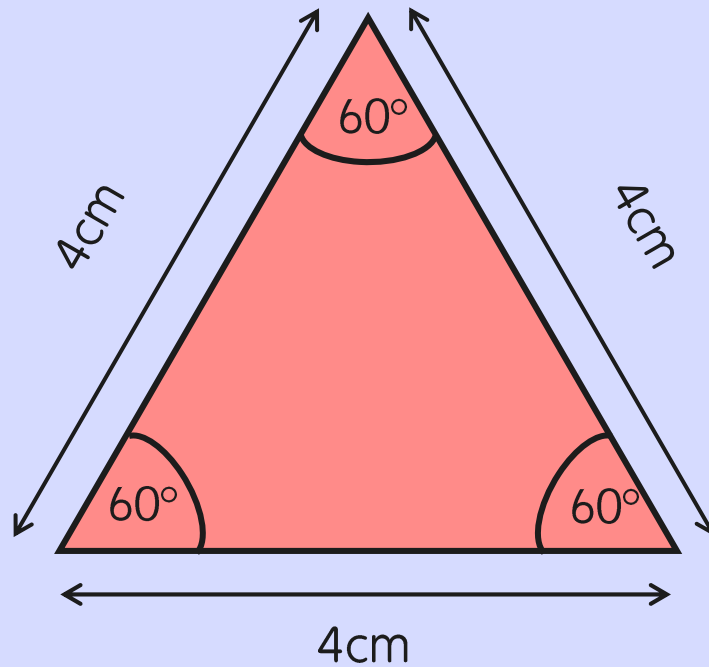
Nonagon



Decagon

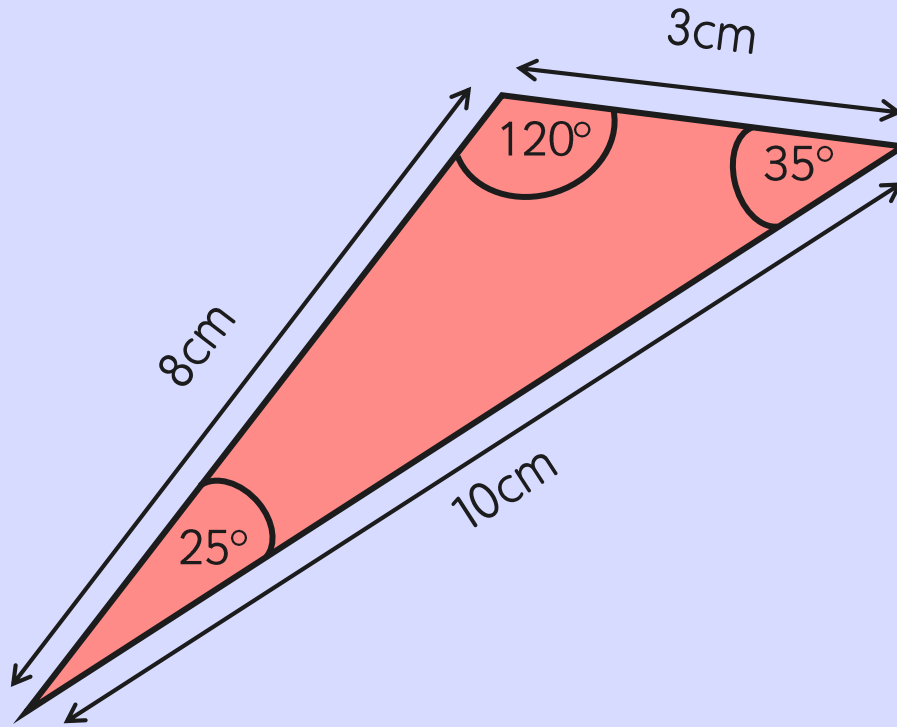
Regular Polygons

A **regular** polygon is a 2D shape where **all the angles are equal** and the **lengths of the sides are equal**.



Irregular Polygons

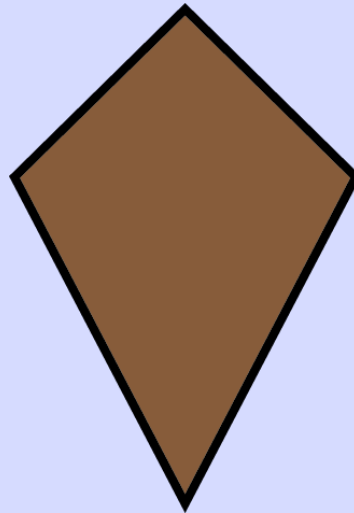
An **irregular** polygon is a 2D shape which **does not** have all sides equal and all angles equal.



Quick Quiz



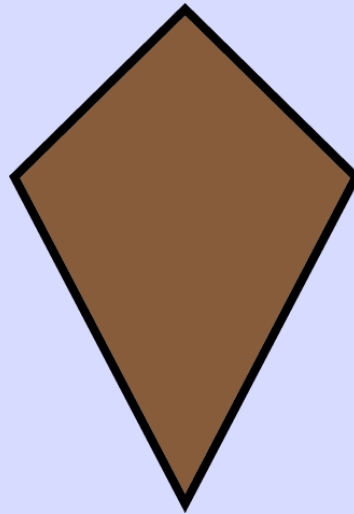
Is this shape **regular** or **irregular**?



Quick Quiz



Is this shape **regular** or **irregular**?

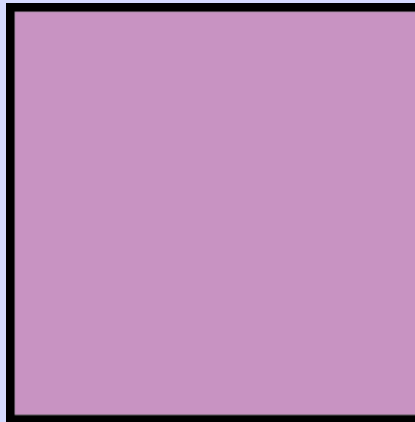


Irregular

Quick Quiz



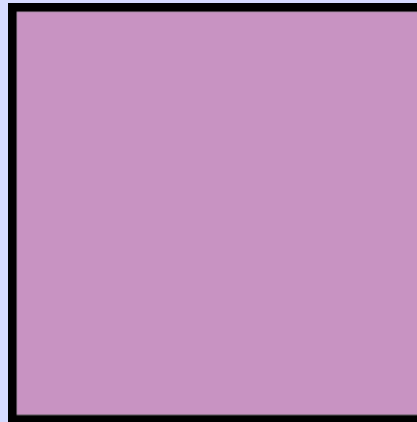
Is this shape **regular** or **irregular**?



Quick Quiz



Is this shape **regular** or **irregular**?



Regular

Quick Quiz



Is this shape **regular** or **irregular**?



Quick Quiz



Is this shape **regular** or **irregular**?

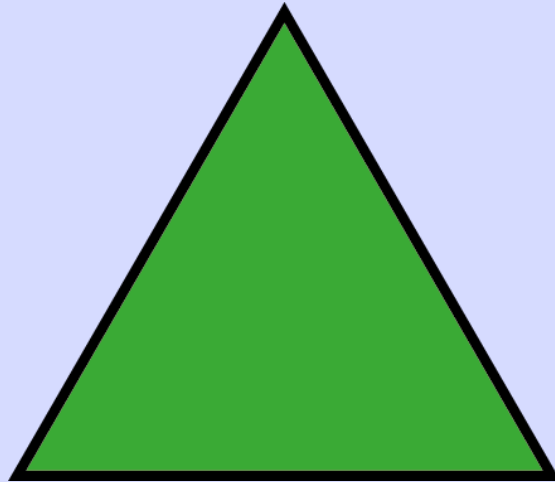


Irregular

Quick Quiz



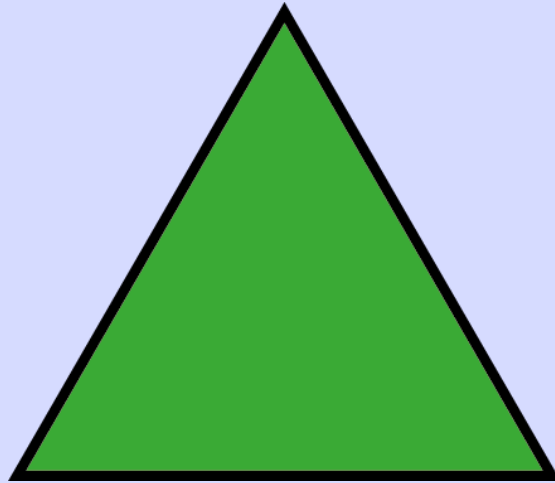
Is this shape **regular** or **irregular**?



Quick Quiz



Is this shape **regular** or **irregular**?



Regular

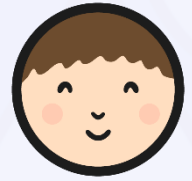
Sorting Shapes

We can also sort shapes based on the properties of their lengths and angles using a Carroll diagram.

	Regular	Irregular
Right Angle		
No Right Angle		



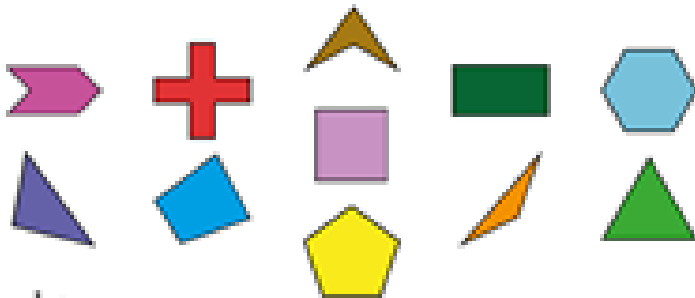
Shape Reasoning



Sorting Regular and Irregular Shapes

Use the shapes below to identify regular and irregular shapes based on the properties of length and angle.

Sort the shapes into the correct writing frame.



Regular	Irregular