

Regular Polygons

A polygon is a shape with **straight** sides.

If all the sides are equal in the length and the angles are equal in size, the shape is **regular**.

Regular shapes have equal sides **and** equal angles.



Equilateral triangle

Regular triangle

3 equal sides
3 equal angles



Square

Regular quadrilateral

4 equal sides
4 equal angles



Regular pentagon

Regular pentagon

5 equal sides
5 equal angles



Regular hexagon

Regular hexagon

6 equal sides
6 equal angles



Regular heptagon

Regular heptagon

7 equal sides
7 equal angles



Regular octagon

Regular octagon

8 equal sides
8 equal angles



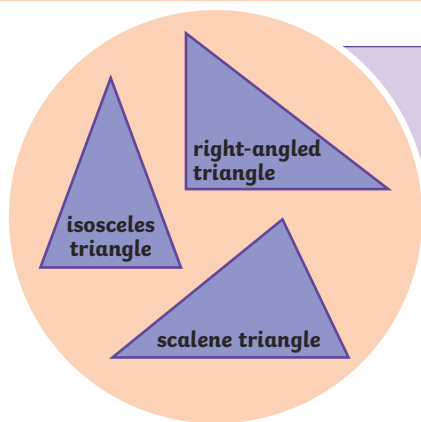
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Irregular Polygons

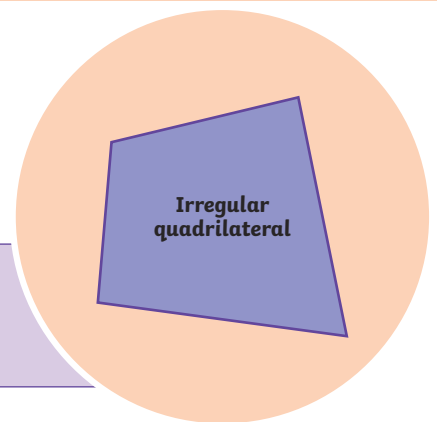
A polygon is a shape with **straight** sides.

If all of the sides are not equal lengths or all of the angles are not equal sizes, the shape is **irregular**.

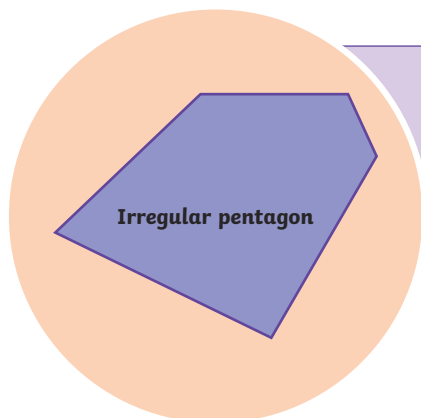
Irregular shapes have sides of **different lengths** and angles of **different sizes**.



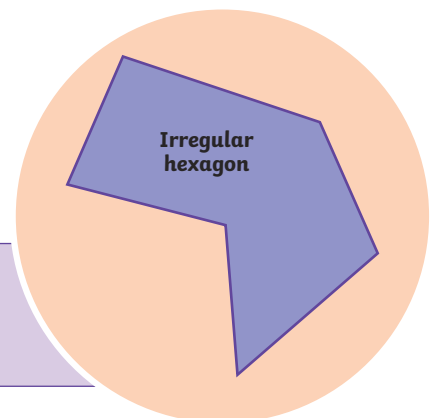
Irregular triangle – isosceles, scalene or right angled
3 sides – with different lengths
3 angles – different sizes



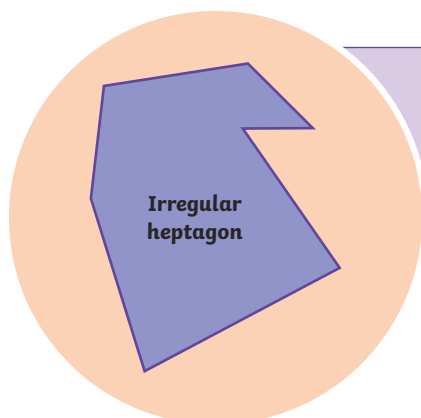
Irregular quadrilateral
4 sides – with different lengths
4 angles – different sizes



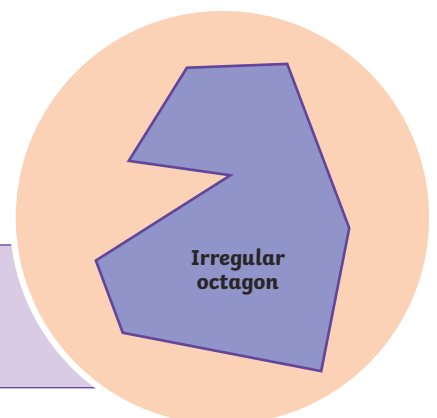
Irregular pentagon
5 sides – with different lengths
5 angles – different sizes



Irregular hexagon
6 sides – with different lengths
6 angles – different sizes



Irregular heptagon
7 sides – with different lengths
7 angles – different sizes



Irregular octagon
8 sides – with different lengths
8 angles – different sizes