

Key Vocabulary

angle

right angle

acute

obtuse

horizontal

vertical

diagonal

parallel

perpendicular

two-dimensional

polygon

line of symmetry

reflection

mirror line

isosceles

equilateral

scalene

quadrilateral

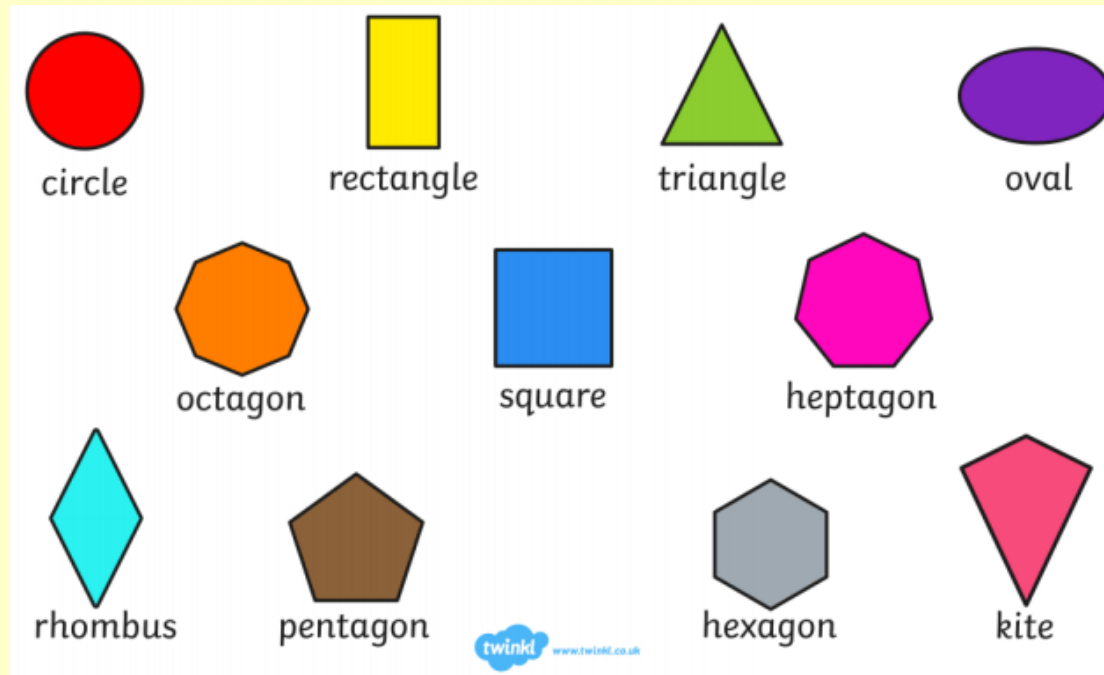
rhombus

parallelogram

trapezium

30.03.20

I can compare and classify shapes
including triangles.

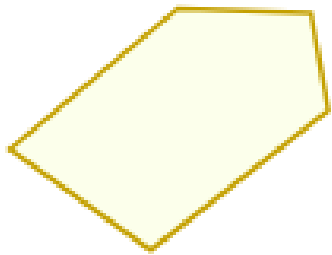


What is a polygon? What isn't a polygon?

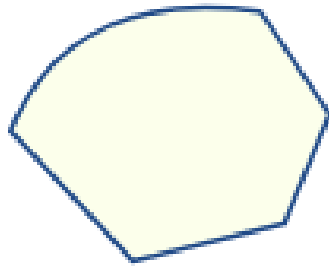
Watch this video to help understand what a polygon is.

https://www.youtube.com/watch?v=laoZhhx_19s

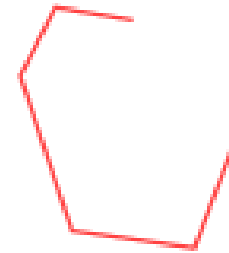
Polygons are 2-dimensional shapes. They are made up of straight lines, and the shape is closed (all the lines connect).



Polygon
(straight sides)



Not a Polygon
(has a curve)



Not a Polygon
(open, not closed)

Triangles

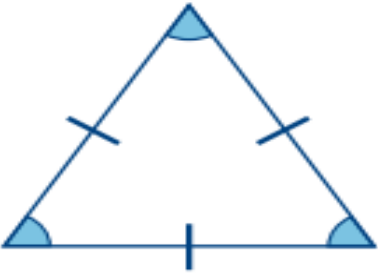
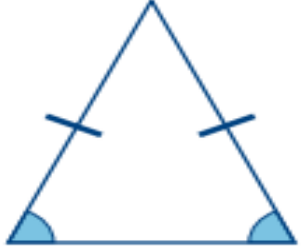
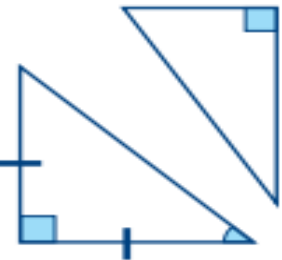
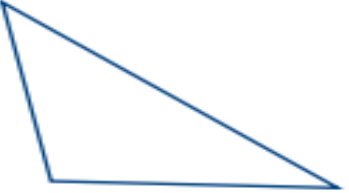
There are 4 main types of triangles as you can see.

These are:

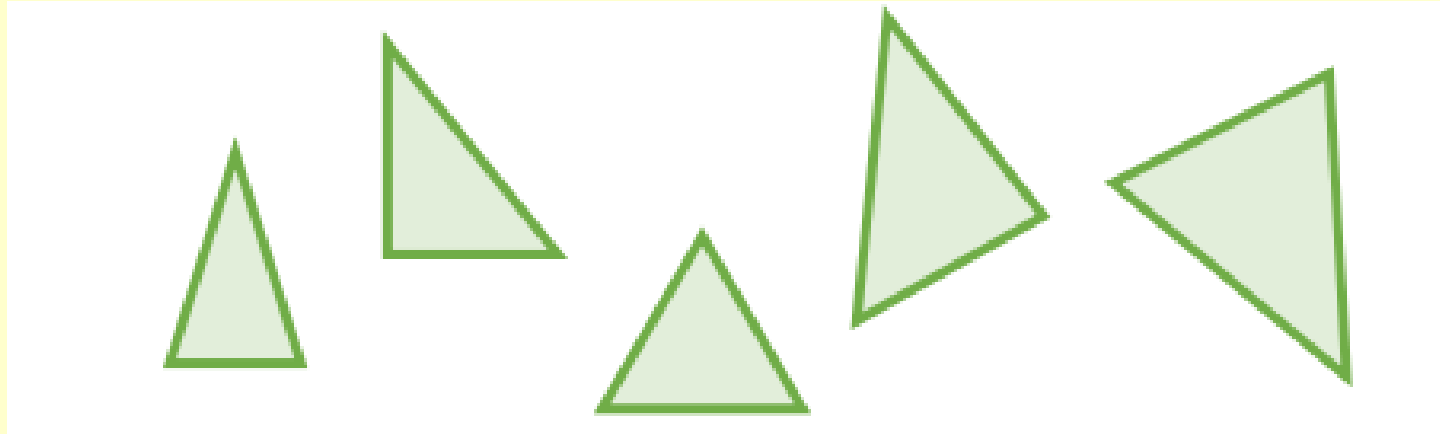
- Equilateral
- Isosceles
- Right Angled Triangle
- Scalene Triangle

Each triangle has different properties.

Can you find any of these triangles around your house?

Triangles	
	<p>Triangles have 3 sides and 3 vertices. The total of the angles in a triangle is 180°.</p> <p>An equilateral triangle is a regular polygon. It has sides of equal length and each angle is 60°.</p>
	<p>An isosceles triangle has two sides of equal length and two angles of equal size.</p>
	<p>A right-angled triangle always has one 90° angle.</p> <p>It can be isosceles or scalene.</p>
	<p>A scalene triangle has no equal sides or angles.</p>

1. Draw these triangles in your book and label them using the correct terms.



Isosceles

Scalene

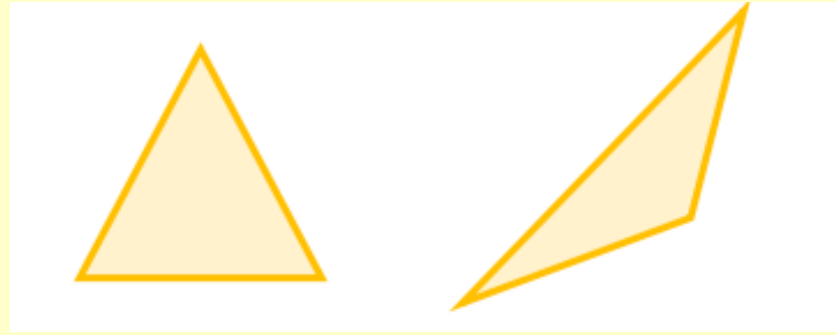
Equilateral

Are any of these right angled triangles?

Which triangle can also be right angled?

What are the properties of an isosceles, scalene and an equilateral triangle?

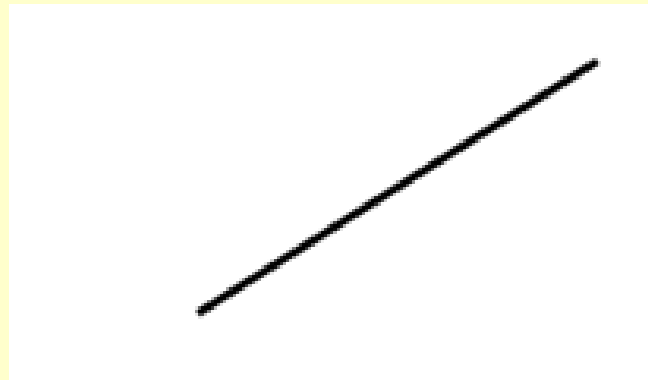
2. Look at these two triangles. What is the same? What is different?



3. Using a ruler, draw an isosceles and a scalene triangle.

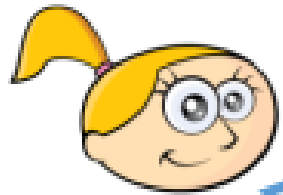
4. Draw this line in your book. Draw two more sides to create

- An equilateral triangle
- A scalene triangle
- An isosceles triangle



Which is the hardest to draw?

Challenge:



Eva

If I use 6 straws to make a triangle, I can only make an equilateral triangle.

Investigate whether Eva is correct.

You might try to solve this using objects around your house. If you don't have straws try pencils or something else straight.