Triangles

A triangle has three sides and three angles.



The three angles always add up to 180 degrees.

Equilateral, Isosceles and Scalene

There are three special names given to triangles that tell how many sides and angles are equal. There can be 3, 2, or NO equal sides and angles:



Equilateral Triangle

Three equal sides. a Three equal angles, always 60°.

Isosceles Triangle

Two equal sides. а Two equal angles. **6**

Scalene Triangle

No equal sides. No equal angles.





Triangles

What Type of Angle ?

Triangles can also have names that tell you what type of angle is inside:



Combining the Names.

Sometimes a triangle may have two names, here is a list of possible combinations:

Right Scalene Triangle

Has a right angle (90°), and no equal sides or angles.

Obtuse Scalene Triangle

Has an angle $> 90^{\circ}$, and no equal sides or angles.

Acute Scalene Triangle

Has all angles $< 90^{\circ}$, and no equal sides or angles.

Right Isosceles Triangle

Has a right angle (90°) and two equal angles (45°), and two equal sides.

Obtuse Isosceles Triangle Has an angle > 90° , and two equal sides.

Acute Isosceles Triangle Has all angles < 90[°], and two equal sides.



