Triangles

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| http://www.mathsisfun.com/images/style/right-arrow.gif | A triangle has three sides and three angles |
| http://www.mathsisfun.com/images/style/right-arrow.gif | The three angles always add to 180° |

Equilateral, Isosceles and Scalene

There are three special names given to triangles that tell how many sides (or angles) are equal.  
  
There can be **3**, **2** or **no** equal sides/angles:

|  |  |
| --- | --- |
| Equilateral Triangle | Equilateral Triangle  **Three** equal sides  **Three** equal angles, always 60° |
| Isosceles Triangle | Isosceles Triangle  **Two** equal sides  **Two** equal angles |
| Scalene Triangle | Scalene Triangle  **No** equal sides  **No** equal angles |

What Type of Angle?

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

|  |  |
| --- | --- |
| Acute Triangle | Acute Triangle  All angles are less than 90° |
| Right Triangle | Right Triangle  Has a right angle (90°) |
| Obtuse Triangle | Obtuse Triangle  Has an angle more than 90° |

Combining the Names

Sometimes a triangle will have two names, for example:

|  |  |
| --- | --- |
| Right Isosceles Triangle | Right Isosceles Triangle  Has a right angle (90°), and also two equal angles  Can you guess what the equal angles are? |