Name Date

TRIANGLES INFORMATION

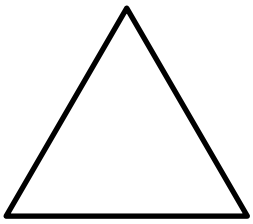
PROPERTIES OF TRIANGLES

Triangles have the following properties:

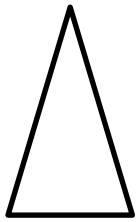
- All triangles have 3 straight sides, 3 corners (vertices), and 3 angles.
- All triangles have angles adding up to 180°.

TYPES OF TRIANGLES

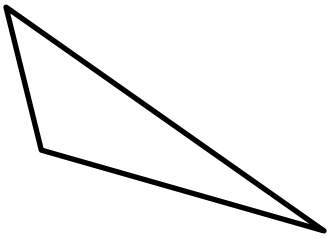
There are 3 main types of triangles:



Equilateral triangle



Isosceles triangle



Scalene triangle

Equilateral triangles

An equilateral triangle has the following properties (in addition to the properties above):

- Three sides of equal length.
- Three angles of equal size which are all 60°.
- Three lines of symmetry.

Isosceles triangles

An isosceles triangle has the following properties:

- Two sides of equal length.
- Two equal angles.
- One line of symmetry.

Scalene triangles

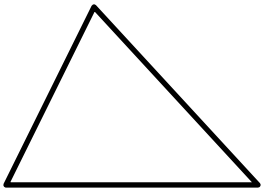
A scalene triangle has the following properties:

- No sides of equal length.
- No equal angles.
- No lines of symmetry.

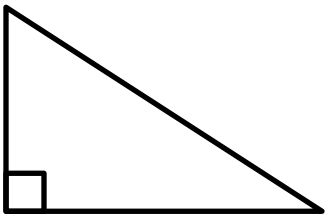
Name Date

ANGLES IN A TRIANGLE

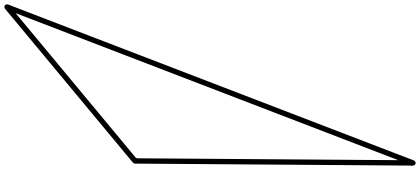
In any triangle, all the angles add up to 180˚.



Acute triangle



Right triangle
(or right-angled triangle)



Obtuse triangle

Acute triangles

Acute triangles have **all** acute angles (angles less than 90°).

It is possible to have an acute triangle which is also an isosceles triangle – these are called acute isosceles triangles.

Right triangles (right-angled triangles)

Right triangles have one right angle (equal to 90°).

It is possible to have a right isosceles triangle – a triangle with a right angle and two equal sides.

Obtuse triangles

Obtuse triangles have one obtuse angle (angle which is greater than 90°).

It is possible to have an obtuse isosceles triangle – a triangle with an obtuse angle and two equal sides.