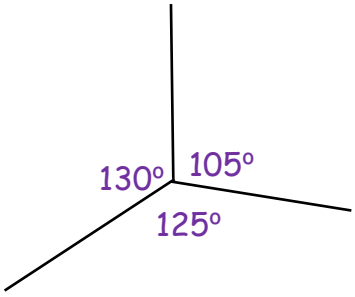
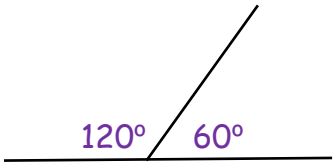
ANGLES & CIRCLES

ANGLES RULES

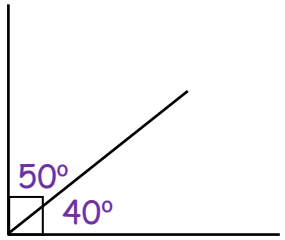
Angles about a point add to 360°.



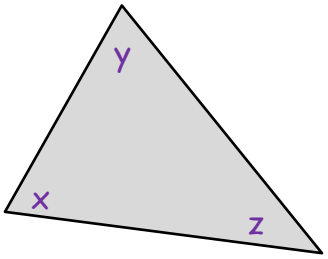
Angles on a straight line add to 180°.



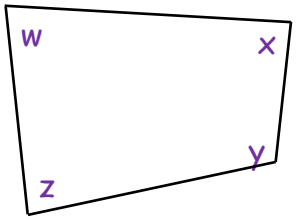
Angles in a right angle add to 90°.



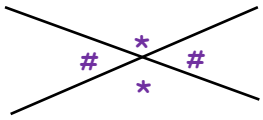
Angles in a triangle add to 180°.



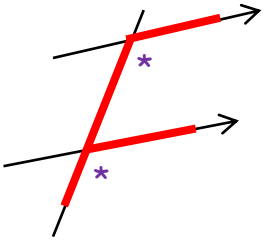
Angles in a quadrilateral add to 360°.



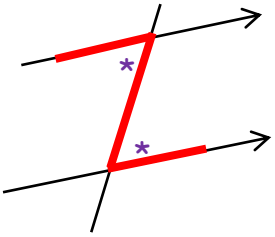
Vertically opposite angles are equal. (X shape)



Corresponding angles are equal. (F shape)

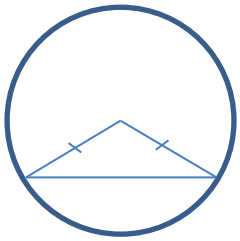


Alternate angles are equal. (Z shape)

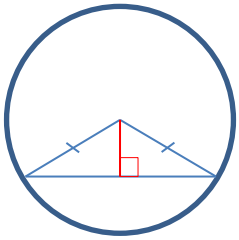


Isosceles Triangles

A triangle that is formed from 2 radii is an isosceles triangle.

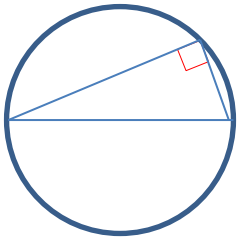


An isosceles triangle can be split into 2 right angled triangles.



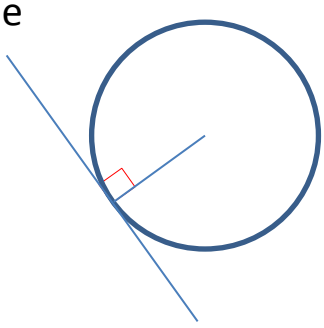
Angle in a Semi-Circle

A triangle drawn in a semi-circle is a right-angled triangle where the diameter is the hypotenuse of the triangle.



Tangent to a Circle

A tangent to a circle is a line that touches the circumference of the circle at one point.
A tangent is perpendicular to the radius.



Angles Practice

http://www.supermathsworld.com/ Ask your teacher for login details.

Select Shape from the menu.
Try Angle Rules 1 and Angles Rules 2 on Easy, Medium and Hard levels.

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http://www.thatquiz.org/

Select angles under the geometry heading.

Tick the box next to Line. Answer the questions.
Repeat for Parallel, Triangle and Measure.

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http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i5/bk7_5i1.htm
http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i5/bk7_5i1.htm
http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i5/bk7_5i3.htm
http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i5/bk7_5i4.htm
http://www.cimt.plymouth.ac.uk/projects/mepres/book7/bk7i5/bk7_5i6.htm
http://www.cimt.plymouth.ac.uk/projects/mepres/book8/bk8i11/bk8_11i2.htm

Learn about angles and answer the questions.

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http://www.mathwarehouse.com/geometry/circle/tangent-to-circle.php

Revise tangent to a circle. Try the problems.

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http://www.bbc.co.uk/bitesize/standard/maths_ii/measure/circles/revision/3/

Revise the rule and try the TESTBITE.

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http://www.supermathsworld.com/ Ask your teacher for the login details.

Select SHAPE from the bottom menu. Select CIRCLE THEOREMS 1 on EASY level.
Select SHAPE from the bottom menu. Select CIRCLE THEOREMS 2 on EASY, MEDIUM and HARD levels.