

The Debden Park Maths Dictionary



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and Adam

Adjacent	the side on a right angled triangle, next to the angle
allied angles	set of angles made by a transversal line always add to 180
alternate angles	2 angles formed by a transversal line . Always equal
angle bisector	cut an angle into half exactly
area of a pyramid	area of each triangular side + area of base square
area of circle	πr^2
area of rectangle	length x width
area of triangle	$1/2$ base x height
Bearing	three figure angle measurement from a north point
Circle theorem	angle at centre is twice that of circumference angles of the same arc (sector) are equal angle in a semi circle is 90 degrees opposite angles in cyclic quadrilateral add up to 180
circumference	length around the edge of a circle (also $2\pi r$)

congruent	when 2 shapes are exactly the same size and shape
co-ordinates	x is horizontal and y is vertical
corresponding angles	set of angles formed by a transversal line , always equal
cosine rule	$a^2 = b^2 + c^2 - 2bc \cos A$
cross-section	cutting of a 3D shape
denominator	bottom of fraction
Density	mass per unit
diameter	a line from one side of the circle to the other passing through the centre
Elevation	a view from the side or front
equality	something that can be found by an equation
equation	a set of numbers where you have to find a number
Front elevation	a view from the front
Gradient	the amount of slope of a line or curve on a graph

gradient formula	gradient = distance up/down divided by distance across
Hypotenuse	longest side of a right angled triangle
Integer	a whole number with no decimals e.g 5 not 5.2
intercept	where a straight line graph crosses the y axis
Linear functions	functions that give a straight-line graph
linear graph	a straight line graph
linear graph formula	$y=mx + c$
loci	plural of loci e.g paths which follow certain rules
locus	the path of a point which follows a certain rule
Net	flat version of a three dimensional shape
numerator	top of fraction
Origin	0 , 0 point on axis of graph
opposite	the side on a right angled triangle opposite the angle

Parallel line	2 straight lines in a train track fashion, they never meet
perimeter	total distance around the edge of a shape
perpendicular	a straight line at 90 degrees
perpendicular	
graph	straight line going through a point on a graph
plan view	a view from above
Quadrants	four sections of a graph
Radius	a line from the centre to the edge of a circle
reciprocal	flipping fractions e.g $\frac{2}{3}$ is $\frac{3}{2}$
reflection	mirroring an image or shape in a certain line e.g $x=y$
rotation	rotating a shape clock wise or anti clockwise around a given point - usually 90 , 180 , 270 , 360
Segment	part of a circle
sine rule	$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$
SOH CAH TOA	way to remember trigonometric ratios

Tangent	straight line that touches a curve at 90 degrees to the radius
translation	moving all of the points in a shape the same distance
transversal lines	a diagonal line that cuts through two parallel lines
trial and improvement	to try all the numbers that could fit an equation until you find the right one
Variables	two different things that can affect the answer
vector	a move of x units and y units (across the hall and up the stairs)
vertically opposite	angles formed by 2 straight lines crossing
volume	space taken up by 3D shape (length x width x height)