

Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
7/10 as a decimal			1/4 as a decimal		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
0.25 as a fraction			0.1 as a fraction		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
0.8 as a percentage			3/4 as a percentage		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
The value of 6 in the number 23.469			What is this number 256780?		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Factors of 20			Multiples of 7		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Highest Common Factor of 12 and 8			Lowest Common Multiple of 12 and 8		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
The first five prime numbers			Express 45 as a product of primes		

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0.25

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0.7

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1/10

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1/4

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75%

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80%

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Two Hundred and fifty-six thousand seven hundred and eighty.

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6 Hundredths (0.06)

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7,14,21,28,35...

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1, 20, 2, 10, 4, 5

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24

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4

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3 x 3 x 5 or 3² x 5

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2, 3, 5, 7, 11

Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Find $\frac{2}{5}$ of 25			Find $\frac{3}{4}$ of 28		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$3 + 5 \times 3$			$3 - 2 + 1$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
-4×-3			-3×2		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$-20 \div 5$			$-10 \div 2$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$-4 - 3$			$4 - - 3$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$3^3 \times 3^4 =$			$8^7 \div 8^4 =$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$\frac{5^6}{5^2}$			9^0		

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21

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10

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2

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18

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-6

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12

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-5

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-4

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7

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-7

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8^3

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3^7

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1

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5^4

Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
5^2			Square of 9		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
2^3			Cube of 3		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$\sqrt{36}$			$\sqrt[3]{8}$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Cube root of 125			Name the First 5 Square Numbers		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Name the first 4 cube numbers			What is the reciprocal of $1/7$?		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Write 360000 in standard form			Write 5780000 in standard form		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Write 0.0007 in standard form			Write 0.0085 in standard form		

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81

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25

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27

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8

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2

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6

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1, 4, 9, 16, 25

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5

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7

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1, 8, 27, 64

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5.78×10^6

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3.6×10^5

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8.5×10^{-3}

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7×10^{-4}

Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Round 23.456 to 1 decimal place			Round 0.05457 to 1sf		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Round 2.3457 to 2sf			Round 78.5457 to 2sf		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Round 3456 to 2sf			$(2 \times 10^6) \times (3 \times 10^5)$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Round 0.1452 to 3 decimal places			Simplify $\sqrt{75}$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Rationalise $\frac{1}{\sqrt{3}}$			9^{-1}		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
$9^{-0.5}$			3^{-2}		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Write in a different form $x^{\frac{1}{2}}$			Write in a different form $y^{\frac{1}{3}}$		

0.05

23.5

79

2.3

2×10^{11}

3500

$5\sqrt{3}$

0.145

$\frac{1}{9}$

$\frac{\sqrt{3}}{3}$

$\frac{1}{9}$

$\frac{1}{3}$

$\sqrt[3]{y}$

\sqrt{x}

Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Simplify $2m \times 3$			Simplify $P + P + P - P$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Simplify $y + y + y$			Simplify $p \times p \times p \times p$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Factorise $3x-21$			Factorise $2x+6$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Expand $y(y+4)$			Expand $4(x+2)$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Factorise $8y^2 + 4yx$			Expand $3x(x+2)$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
x^0			Simplify $(x^3)^4$		
Q	SYBIL ANDREWS ACADEMY	9HT1	Q	SYBIL ANDREWS ACADEMY	9HT1
Write in a different form $\sqrt{\frac{a}{b}}$			Write in a different form \sqrt{ab}		

$$2p$$

$$p^4$$

$$2(x+3)$$

$$4x + 8$$

$$3x^2 + 6x$$

$$x^{12}$$

$$\sqrt{a} \times \sqrt{b}$$

$$6m$$

$$3y$$

$$3(x-7)$$

$$y^2 + 4y$$

$$4y(2y+x)$$

$$1$$

$$\frac{\sqrt{a}}{\sqrt{b}}$$

Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
Nth term of 3,7,11,15...			Make y the subject of $x = y + 7$		
	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
Type of sequence: 2,5,10,17,26...			Type of sequence: 1,2,4,8,16,32...		
	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
Type of sequence: 1,4,7,10,13...			Type of sequence: 3,4,7,11,18,29...		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What type of sequence is 1,1,2,3,5,8...			How do you multiply fractions?		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
How do you add or subtract fractions?			What is the numerator?		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
How do you divide fractions?					
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What is the denominator?					

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$$Y = X - 7$$

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Geometric

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Fibonacci

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**Multiply the
Numerators and the
Denominators**

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Top part of a fraction

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$$4n - 1$$

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Quadratic

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Linear (Arithmetic)

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Fibonacci

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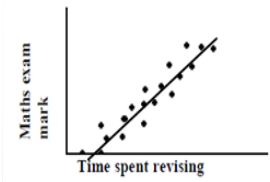
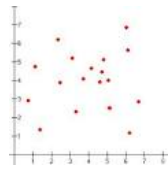
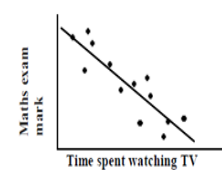
**Find a common
denominator**

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**'Flip' the second
fraction and multiply**

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**Bottom part
of a fraction**

Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
In a pie chart angles add to			How do you find the Mean?		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What is the Mode?			What is the Range?		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What is the Median?			What Correlation? 		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What Correlation? 			What Correlation? 		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
What is a Data Collection Sheet?			Simplify 30:20		
Q	SYBIL ANDREWS ACADEMY	9HT2	Q	SYBIL ANDREWS ACADEMY	9HT2
Split £30 in the ratio 4:1			Split £100 in the ratio 7:3		
Q			Q		

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**Add up all the values and
divide by how
many there are**

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360°

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**The largest value
subtract the
smallest value**

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**The most frequent
piece of data**

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Positive

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**The middle piece of data
when in order**

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Negative

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None (Zero)

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3 : 2

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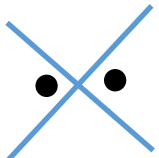
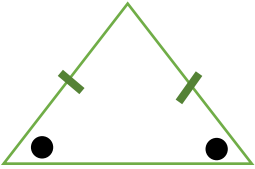
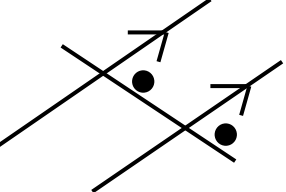
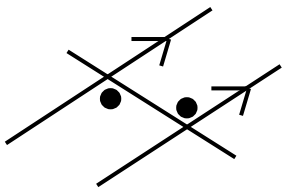
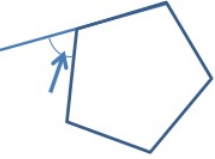
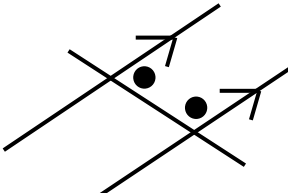
Tally Chart/Table

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£70 and £30

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£24 and £6

Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
What type of lines? 			What type of lines? 		
	SYBIL ANDREWS ACADEMY		Q	SYBIL ANDREWS ACADEMY	9HT3
To decrease by 5% multiply by			Angles in a triangle...		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Angles on a Straight Line...			Angles around a point...		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Angles in quadrilateral...			Exterior Angles add to...		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name this angle fact 			 Which angle fact?		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
 Which angle fact?			 Which angle fact?		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
 Name the type of angle			 Which angle fact?		

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Perpendicular

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Add to 180°

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Add to 360°

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Add to 360°

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**Base angles in
an isosceles triangle
are equal**

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**Alternate Angles
are Equal**

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**Allied Angles
add to 180°**

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Parallel

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0.95

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Add to 180°

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Add to 360°

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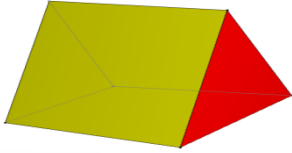


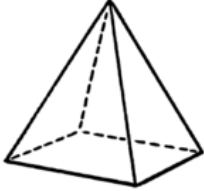
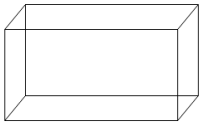
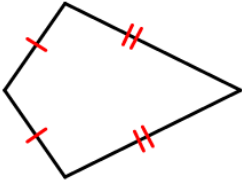

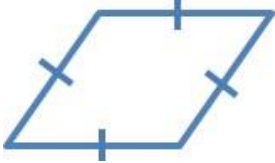
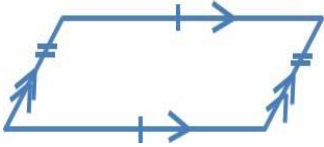
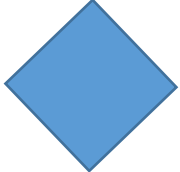
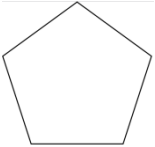
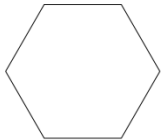
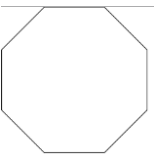
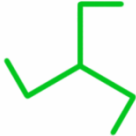
**Vertically Opposite
Angles are Equal**

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**Corresponding
Angles are Equal**

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Exterior Angle

Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 3D Shape 			Name the 3D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 2D Shape 			Name the 3D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 3D Shape 			Name the 2D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the Shape 			Name the 2D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 2D Shape 			Name the 2D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 2D Shape 			Name the 2D Shape 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Name the 2D Shape 			This shape has rotational symmetry of: 		

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Cylinder (Circular Prism)

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Square Based Pyramid

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Kite

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Rhombus

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Square

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Hexagon

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Order 3

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Triangular Prism

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Trapezium

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Cuboid

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Sphere

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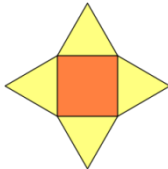
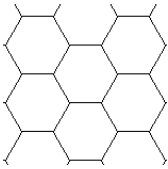
Parallelogram

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Pentagon

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Octagon

Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
To increase by 5% multiply by			Formula for the Area of a Trapezium		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
What is <u>Simple Interest</u> ?			What is <u>Compound Interest</u> ?		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
Depreciate means			What's a 'Plan' of a shape?		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
Corners of a Shape are called			The view from front or side of a 3d shape is called		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
Sides of 3D Shapes are called...			What is this? 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
To increase by 15% multiply by			What key word describes this pattern? 		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	WWW.TANNERMATHS.CO.UK	9HT3
What does congruency mean?			Pythagoras says:		

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$\frac{1}{2} (a + b) \times$
perpendicular height

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1.05

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Finding the interest of the new
total amount each year

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The same amount of
interest every year

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The view from above
(Birdseye view)

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Decrease

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Elevation

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Vertices

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Net

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Edges

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Tessellation

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1.15

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$a^2 + b^2 = c^2$
for a right angled triangle

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Exactly the same

Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
<p>What is the Tan ratio for right angled trigonometry?</p>			<p>What is the Cosine ratio for right angled trigonometry?</p>		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
<p>A way to remember the right angled trigonometry formulae</p>			<p>What is the Sine ratio for right angled trigonometry?</p>		
Q	SYBIL ANDREWS ACADEMY	9HT3			
<p>Formula for Percentage Change</p>					

$$\cos \theta = \frac{\textit{adjacent}}{\textit{hypotenuse}}$$

$$\tan \theta = \frac{\textit{opposite}}{\textit{adjacent}}$$

$$\sin \theta = \frac{\textit{opposite}}{\textit{hypotenuse}}$$

SOHCAHTOA

$$\frac{\textit{Change}}{\textit{Orginal}} \times 100$$

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Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Sin 30			Cos 60		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Cos 30			Tan 45		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Cos 45			Sin 60		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Cos 90			Sin 90		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Sin 45			Sin 0		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Cos 0			Tan 0		
Q	SYBIL ANDREWS ACADEMY	9HT3	Q	SYBIL ANDREWS ACADEMY	9HT3
Tan 30			Tan 60		

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$$\frac{1}{2}$$

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$$\frac{1}{2}$$

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$$1$$

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$$\frac{\sqrt{3}}{2}$$

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$$\frac{\sqrt{3}}{2}$$

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$$\frac{\sqrt{2}}{2}$$

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$$1$$

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$$0$$

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$$0$$

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$$\frac{\sqrt{2}}{2}$$

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$$0$$

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$$1$$

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$$\sqrt{3}$$

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$$\frac{\sqrt{3}}{3}$$