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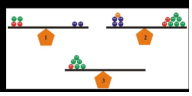
Common Language and Methodology for Teaching Numeracy 3-18

St. Ninian's High School



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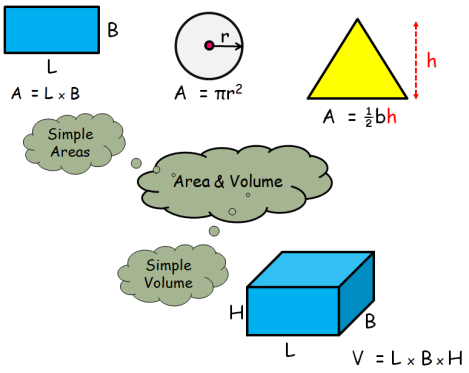

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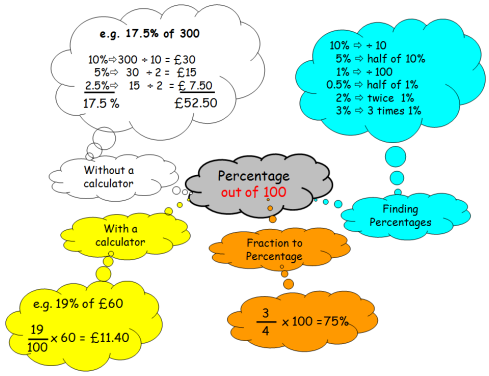

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Simple Percentages

Learn the following basic percentages

100%	50%	$33\frac{1}{3}$%	25%	20%	10%	5%	1%
1	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{10}$	$\frac{1}{20}$	$\frac{1}{100}$

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Counting Method

Hrs	Mins
	20
2	
+	10
2	30

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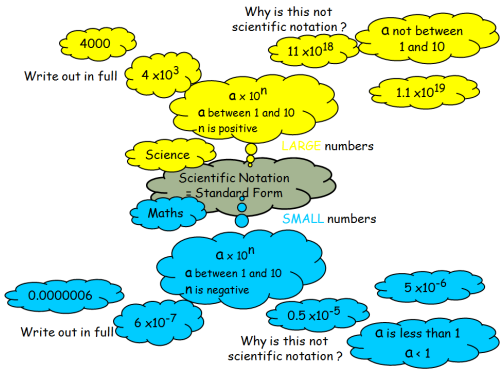

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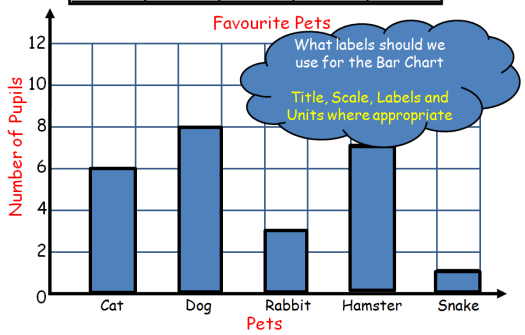
cat	dog	rabbit	hamster	snake
6	8	3	7	1



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Balancing Method

Lets solve it using maths.

Let P be the weigh of a big bag.

We know that a small bag = 4

$2P + 4 = P + 12$

Subtract 4 from each side: $-4 \quad -4$

$2P = P + 8$

Subtract P from each side: $-P \quad -P$

$P = 8$

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Drawing Pie Charts

In a survey, people were asked to indicate which one of five musical instruments they played. The information is given in the table. Display the information in a pie chart.

Musical Instrument	
Guitar	35
Violin	10
Recorder	15
Drum	5
Keyboard	25
Total	90

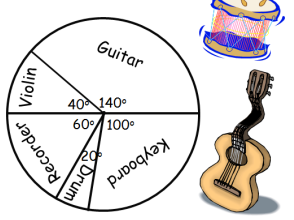
Guitar angle = $\frac{35}{90} \times 360 = 140°$

Violin angle = $\frac{10}{90} \times 360 = 40°$

Recorder angle = $\frac{15}{90} \times 360 = 60°$

Drum angle = $\frac{5}{90} \times 360 = 20°$

Keyboard angle = $\frac{25}{90} \times 360 = 100°$



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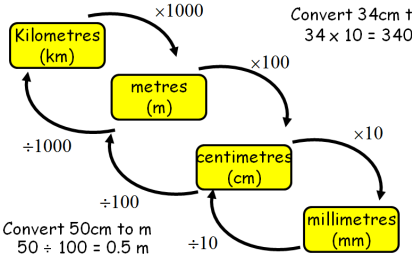
Units of Length Converting Measurements



Convert 34cm to mm
34 x 10 = 340 mm

Convert 50cm to m
50 ÷ 100 = 0.5 m

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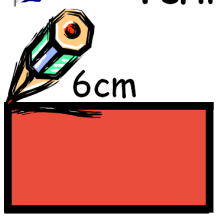
Perimeter



Calculate the perimeter of the rectangle below.

Perimeter = 6 + 3 + 6 + 3 = 18cm

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Area of a Rectangle

Find the area of the rectangle.

B = 2cm

L = 9cm

Area = Length x Breadth

A = L x B

A = 9 x 2

A = 18 cm^2

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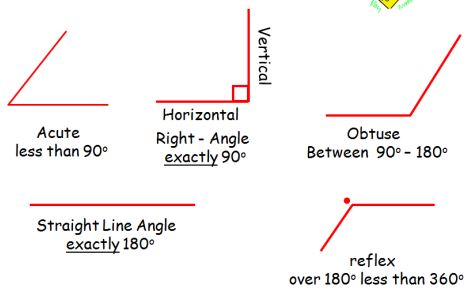
Type of Angles



Acute
less than 90°

Horizontal
Right - Angle
exactly 90°

Obtuse
Between 90° - 180°

Straight Line Angle
exactly 180°

reflex
over 180° less than 360°

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Naming Angles

Type of angle is acute

Name of angle is ∠ ABC

Type of angle is obtuse

Name of angle is ∠ ZYX

MIDDLE LETTER IS ALWAYS WHERE THE ANGLE IS

ALWAYS 3 CAPITAL LETTERS

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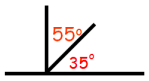
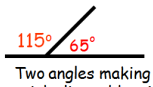
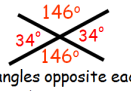
Find Missing Angle





Two angles making a straight line add to 180°
(Supplementary angles)



angles opposite each other at a cross are equal.

Angles round a point always add up to 360°

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Ratio

Bill and Ben share a raffle win of £400 in the ratio 3:5. How much does each get ?

Step 1 : Since the ratio is 3:5, there are :

3+5 = 8 shares

Step 2 : Each share is worth : $8\overline{)400}$ = 50

Step 3 : Bill gets 3 x 50 = £150

Ben gets 5 x 50 = £250

Check !
150 + 250
= 400

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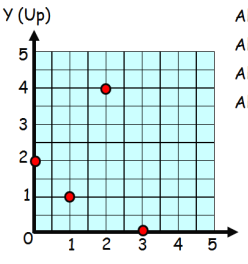
Coordinates



Along 1 Up 1 (1,1)
Along 2 Up 4 (2,4)
Along 0 Up 2 (0,2)
Along 3 Up 0 (3,0)

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Decimal Numbers

Multiplication & Division by a Single Digit

When multiplying by a single digit the decimal point always stays in line.

Calculate 23.68 x 7

23.68
x 7
165.76
2 4 5

When dividing by a single digit the decimal point always stays in line.

Calculate 17.16 ÷ 6

2.86
6)17.16

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Decimal Numbers

Add and Subtract Decimals

When you add or subtract decimal numbers, it is important to line-up the decimal points.

Calculate 7.8 + 0.92

7.80
+ 0.92
8.72
1

Calculate 4 - 0.84

3.16
-0.84
3.16

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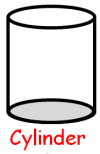
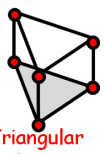
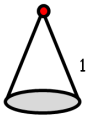
Face Edges and Vertices



Cylinder
3 faces
2 edges
0 Vertices



Triangular Prism
5 faces
9 edges



2 faces
1 edges
1 Vertices
Cone

Sphere
1 faces
0 edges
0 Vertices