
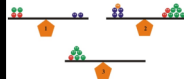
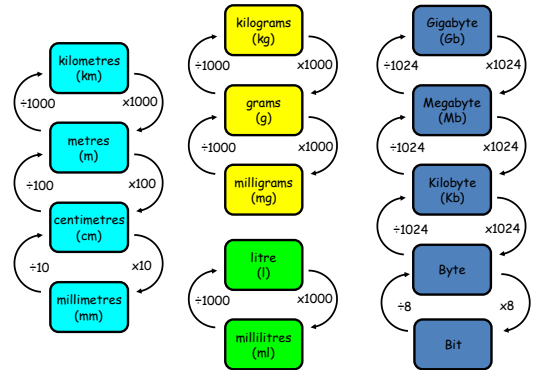

Common Language and Methodology for Teaching Numeracy 3-18
St. Ninian's High School

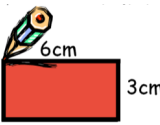
When multiplying by a single digit the decimal point always stays in line.

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

| | |
|-----|------|
| Hrs | Mins |
| | 20 |
| 2 | |
| + | 10 |
| 2 | 30 |




Calculate the perimeter of the rectangle below.



Perimeter = $6 + 3 + 6 + 3 = 18\text{cm}$

Find the area of the rectangle.



Area = Length \times Breadth
 $A = L \times B$
 $A = 9 \times 2$
 $A = 18\text{ cm}^2$

Type of angle is acute
Name of angle is $\angle ABC$

Type of angle is obtuse
Name of angle is $\angle ZYX$

MIDDLE LETTER IS ALWAYS WHERE THE ANGLE IS
ALWAYS 3 CAPITAL LETTERS

Acute: less than 90°

Right - Angle: exactly 90° (Vertical and Horizontal lines)

Obtuse: Between $90^\circ - 180^\circ$

Straight Line Angle: exactly 180°

reflex: over 180° less than 360°

Two angles making a straight line add to 180° (Supplementary angles)
 Example: $55^\circ + 35^\circ = 180^\circ$ and $115^\circ + 65^\circ = 180^\circ$

angles opposite each other at a cross are equal.
 Example: 34° and 34° , 146° and 146°

Angles round a point always add up to 360°
 Example: $120^\circ + 95^\circ + 145^\circ = 360^\circ$

Y (Up)

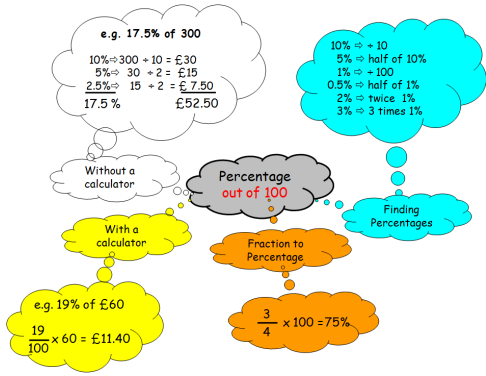
X (Along)

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

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

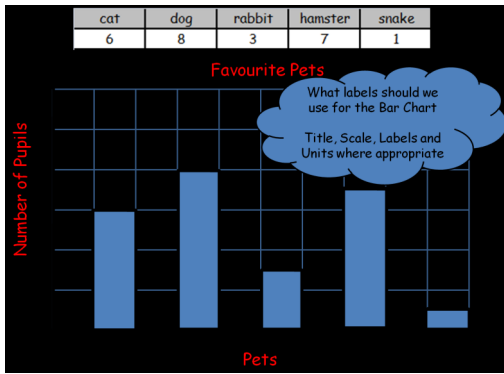
Harder Percentages

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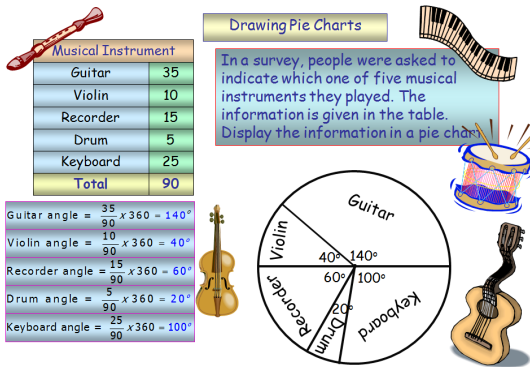
Bar Graph

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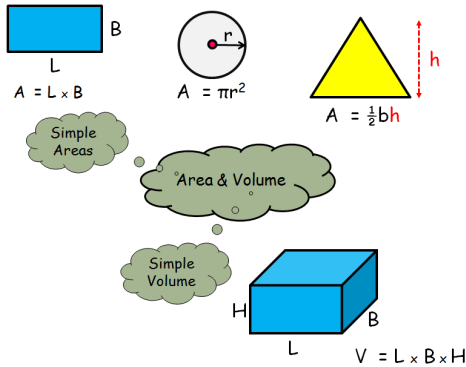
Pie Charts

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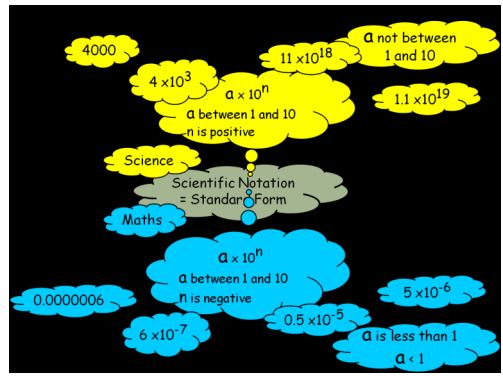
Area and Volume

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Scientific Notation

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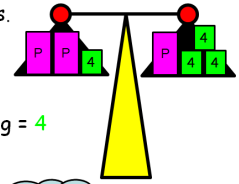
Balancing Method

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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

$$2P + 4 - 4 = P + 12 - 4$$

$$2P = P + 8$$

Subtract P from each side

$$2P - P = P + 8 - P$$

$$P = 8$$

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

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

$$3+5 = 8 \text{ shares}$$

Step 2 : Each share is worth : $\frac{50}{8} 400$

Step 3 : Bill gets $3 \times 50 = \pounds 150$

Ben gets $5 \times 50 = \pounds 250$

Check!
 $150 + 250 = 400$

Faces Edges and Vertices

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