## Shape, Space and Measure

## Conversions

$10 \mathrm{~mm}=1 \mathrm{~cm}$
$100 \mathrm{~cm}=1 \mathrm{~m}$
$1000 \mathrm{~m}=1 \mathrm{~km}$
$1000 \mathrm{~g}=1 \mathrm{~kg}$
$1000 \mathrm{ml}=1 \mathrm{l}$
edges together.

5 cm
$P=5+4+5+4=18 \mathrm{~cm}$

## Nets

Unfolded 3D shapes

## Perimeter

Is the outside of a shape. Add the



## Surface Area

The area of each



## Volume

## Numeracy4All Tips

volume $=$ length $\times$ width $\times$ height


## Enlargement

Scale Factor (S.f.) is what you multiply every length by.
S.f. of 2 - double each length
S.f. of 3 - multiply each length by 3
S.f. of $1 / 2$ - half each length

## Scales


I $a b=a \times b$
I $a^{2}=a \times a$
$\frac{a}{b}=a \div b$

## Substitution into formulas

Swap the letters for the numbers you know.
E.g. If $x=3$ what is $y$ when $y=2 x+4$

$$
\begin{aligned}
& y=(2 \times 3)+4 \\
& y=6+4 \\
& y=\mathbf{1 0}
\end{aligned}
$$

## Speed, Distance and Time Formulas



Speed = Distance $\div$ Time
Time $=$ Distance $\div$ Speed
Distance $=$ Speed $\times$ Time

