Fractions, decimals and
percentages
$\frac{1}{2}=0.5=5$ tenths $=50$ hundredths=50\%
$\frac{1}{4}=0.25=25$ hundredths $=25 \%$
$\frac{3}{4}=0.75=75$ hundredths $=75 \%$
Equivalent fractions
Whatever you do to the numerator, you do the same to the denominator: $\frac{2}{5}=\frac{4}{10}=\frac{8}{20}$
Adding fractions
$\frac{3}{4}+\frac{3}{4}=\frac{6}{4}$ or $1 \frac{2}{4}$ or $1 \frac{1}{2}$
(The denominators must be the same) Subtracting fractions
$\frac{3}{5}-\frac{1}{5}=\frac{2}{5}$
(The denominator must be the same then you can subtract the smaller numerator from the larger
numerator)
Multiplying fractions
$\frac{2}{5} \times \frac{4}{7}=\frac{8}{35}$
(Multiply the numerators together then multiply the denominators
together.)
Dividing fractions
$\frac{4}{5} \div \frac{1}{2}=\frac{8}{5}$ or $1 \frac{3}{5}$
Turn the second fraction upside down $\left(\frac{2}{1}\right)$ then multiply as above. The calculation becomes $\frac{4}{5} \times \frac{2}{1}=\frac{8}{5}$ )

## Percentages

$25 \%$ of 360 is the same as $25 \% \times 360$ $25 \%$ is the same as $\frac{1}{4}$ so half 360 , then half again. Answer is 90 .

## $7 \%$ of $500=$

$10 \%=500 \div 10=50$
$5 \%=50 \div 2=25$
$1 \%=25 \div 5=5$
$7 \%=5 \%+1 \%+1 \%$

## Angles

$90^{\circ}=$ right angle
$180^{\circ}=$ straight line
$360^{\circ}=$ full turn
The angles inside a triangle add up to $180^{\circ}$.
Acute $=$ less than $90^{\circ}$
Obtuse $=$ between $90^{\circ}$ and $180^{\circ}$.
Reflex = greater than $180^{\circ}$
Parallel lines never meet, like train tracks:
$\qquad$
Perpendicular lines are at $90^{\circ}$ to each other.


Horizontal: $\qquad$

## Measurement

$1 \mathrm{~m}=100 \mathrm{~cm}$
To convert from m to cm , multiply by 100
$1 \mathrm{~cm}=10 \mathrm{~mm}$
To convert from cm to mm , multiply by 10 .
$1 \mathrm{~kg}=1000 \mathrm{~g}$ To convert from kg to g , multiply by 1000.
$1 \mathrm{~km}=1000 \mathrm{~m}$ To convert from km to m, multiply by 1000 .

To convert from I to ml, multiply by 1000.


To convert from cm to m divide by 100 .
To convert from mm to cm , divide by 10 .
To convert from g to kg , divide by 1000.
To convert from m to km , divide by 1000 .
To convert from ml to l , divide by 1000.
EVER
~
Year 6
Maths

## $A=(4,4)$

$B=(5,-2)$
$C=(-2,2)$
$D=-3,-4)$
If $A$ was translated 2 right and 3 down, the new co-ordinates would be $(6,1)$.

If $A$ was reflected in the $y$ axis, the new co-ordinates would be $(-4,4)$.
 volume $=$ length x width x height


## Shape

Triangle $=3$ sides
Square $=4$ equal sides Rectangle $=4$ sides Quadrilateral $=4$ sides Pentagon $=5$ sides Hexagon $=6$ sides

## Roman Numeral

I II III IV V VI VII VIII IX X
$50=\mathrm{L} \quad 100=\mathrm{C} \quad 500=\mathrm{D} \quad 1000=\mathrm{M}$
MMCLXXXIII $=2183$

