

## Multiplication and division vocabulary

| Term          | Definition  | Example                              |
|---------------|---|--------------------------------------|
| factor        | a number that divides exactly into another number   | factors of 12 = 1, 2, 3, 4, 6, 12    |
| common factor | factors of two numbers that are the same            | common factors of 8 and 12 = 1, 2, 4 |
| product       | result of two factors multiplied against each other | $3 \times 5 = 15$                    |
| multiple      | a number in another number's times table            | multiples of 9 = 9, 18, 27, 36...    |

## Roman numerals

|   |     |    |      |
|---|-----|----|------|
| 1 | I   | 7  | VII  |
| 2 | II  | 8  | VIII |
| 3 | III | 9  | IX   |
| 4 | IV  | 10 | X    |
| 5 | V   | 11 | XI   |
| 6 | VI  | 12 | XII  |

## YEAR 3 MATHS KNOWLEDGE ORGANISER

## Measurement conversions

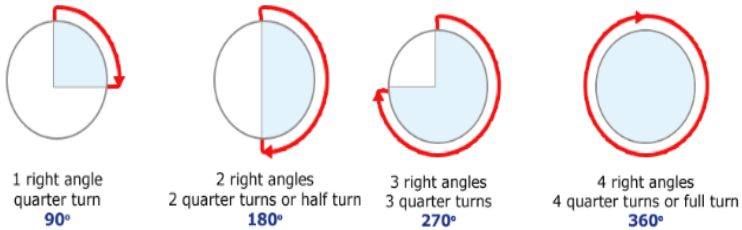
| Month     | Days                 |
|-----------|----------------------|
| January   | 31                   |
| February  | 28 (29 in leap year) |
| March     | 31                   |
| June      | 30                   |
| July      | 31                   |
| August    | 31                   |
| September | 30                   |
| October   | 31                   |
| November  | 30                   |
| December  | 31                   |

1 year = 365 days ( $\approx$  52 weeks)  
Leap year = 366 days

|              |                   |
|--------------|-------------------|
| 1 centimetre | 10mm              |
| 1 metre      | 100cm             |
| 1 kilometre  | 1,000 m           |
| 1 kilogram   | 1,000 grams       |
| 1 litre      | 1,000 millilitres |

## Co-ordinates

Read co-ordinates along the x axis (horizontal) first, then the y axis (vertical). E.g. (3,4) = go right 3, down 4.

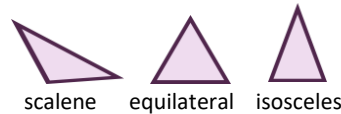


## 2D shapes

| Name          | No. of sides |
|---------------|--------------|
| triangle      | 3            |
| quadrilateral | 4            |
| pentagon      | 5            |
| hexagon       | 6            |
| heptagon      | 7            |
| octagon       | 8            |
| nonagon       | 9            |
| decagon       | 10           |

polygon = shape with straight sides  
regular = all sides/angles the same  
irregular = sides/angles **not** same

## Types of triangle



## Types of quadrilateral



## PERIMETER

Is the total distance around a shape.

## AREA

Is the amount of space inside a 2D shape usually measured in  $\text{cm}^2$  or  $\text{m}^2$ .

## 3D shapes

|  | square-based pyramid | triangular-based pyramid | triangular prism |
|--|----------------------|--------------------------|------------------|
| faces (the flat sides)                     | 5                    | 4                        | 5                |
| edges                                      | 8                    | 6                        | 9                |
| vertices (the points where the edges meet) | 5                    | 4                        | 6                |

## Fractions & decimals

|                 |      |
|-----------------|------|
| $\frac{1}{10}$  | 0.1  |
| $\frac{2}{10}$  | 0.2  |
| $\frac{3}{10}$  | 0.3  |
| $\frac{4}{10}$  | 0.4  |
| $\frac{5}{10}$  | 0.5  |
| $\frac{6}{10}$  | 0.6  |
| $\frac{7}{10}$  | 0.7  |
| $\frac{8}{10}$  | 0.8  |
| $\frac{9}{10}$  | 0.9  |
| $\frac{10}{10}$ | 1.0  |
| $\frac{1}{2}$   | 0.5  |
| $\frac{1}{4}$   | 0.25 |
| $\frac{3}{4}$   | 0.75 |

Volume of a cuboid = length x width x height

## Time

60 seconds = 1 minute

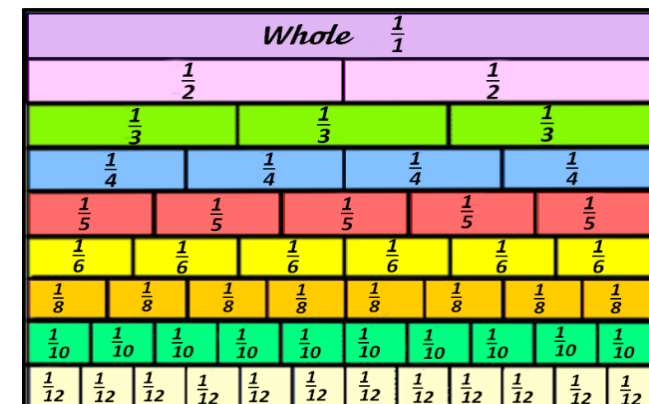
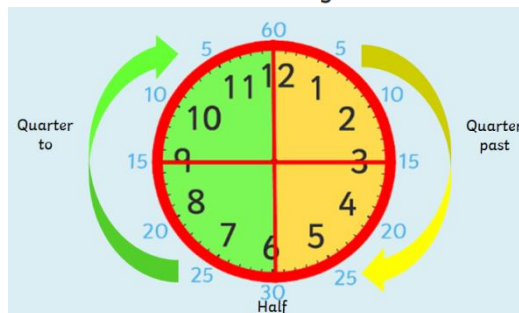
60 minutes = 1 hour

24 hours = 1 day

7 days = 1 week

365 days = 1 year

52 weeks = 1 year



Numerator

Denominator

Equivalent

Fraction

Part

Whole

Equal