Number Facts: Year 6

Ratio and Proportion

Pupils should be taught to:

- solve problems involving the calculation of percentages (e.g. of measures) such as 15% of 360 and the use of percentages for comparison

Fractions

Pupils should be taught to:

- associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $^{3}/_{8}$)

recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Measurement

Pupils should be taught to:

- convert between miles and kilometres
- recognise when it is possible to use formulae for area and volume of shapes

Geometry

Pupils should be taught to:

- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

Number Facts: Measure

- 1km approx. 0.62 miles
- Formula for area of a quadrilateral = length x width
- Formula for area of a triangle = ½ base x height
- Formula for finding the volume of a cube = length x width x height

Number Facts: Fractions

$\frac{1}{8}$ = 12.5% = 0.125

$\frac{1}{3}$ = 33.3% = 0.333

Number Facts: Ratio and Proportion

- To recognise related percentage facts.
  For example:
  If I know 1% then I can find 2% by doubling.
  If I know 10% then I can find 5% by halving

Number Facts: Geometry

- Diameter = 2 x radius
- Radius = ½ diameter

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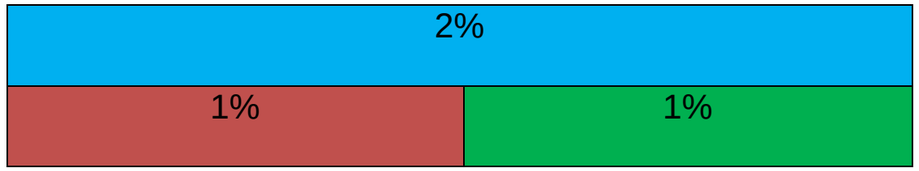
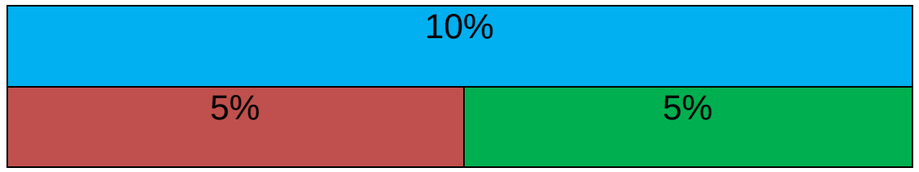
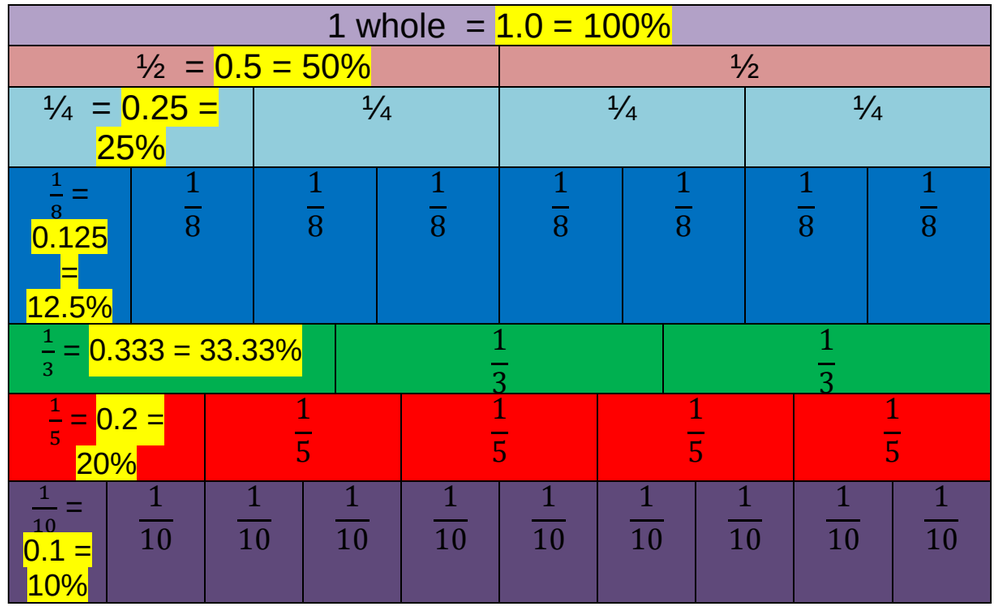
Images and mathematical models to support year 6 conceptual understanding underpinning the facts







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