

## Fractions, decimals and percentages



This activity is about converting between fractions, decimals and percentages.

### Information sheet

#### Converting between decimals and fractions

**To change a decimal to a fraction:** use the place value of the last digit

For example

$$0.85 = \frac{85}{100} = \frac{17}{20}$$

hundredths

**To change a fraction to a decimal:** divide the top by the bottom

For example  $\frac{4}{5} = 4 \div 5 = 0.8$

#### Converting between percentages and fractions or decimals

**To write a % as a fraction or decimal:** divide by 100

For example  $64\% = 64 \div 100 = 0.64$

or  $64\% = \frac{64}{100} = \frac{16}{25}$

**To write a decimal or fraction as a %:** multiply by 100

For example  $0.125 = 0.125 \times 100 = 12.5\%$

or  $\frac{2}{5} = \frac{2}{5} \times 100$  (i.e.  $\frac{2}{5}$  of 100%) = 40%

or  $\frac{2}{5} = 2 \div 5 \times 100 = 40\%$