## **Key Facts**

Fraction	A mathematical expression representing the <b>division</b> of one integer by another.	$\frac{2}{7}$ is a 'proper' fraction.
	Fractions are written as <b>two numbers separated by a horizontal line</b> .	$\frac{9}{4}$ is an 'improper' or 'top-heavy' fraction.
Numerator	The <b>top</b> number of a fraction.	In the fraction $\frac{3}{5}$ , 3 is the numerator.
Denominator	The <b>bottom</b> number of a fraction.	In the fraction $\frac{3}{5}$ , 5 is the denominator.
Unit Fraction	A fraction where the <b>numerator is one</b> and the denominator is a positive integer.	$\frac{1}{2}, \frac{1}{3}, \frac{1}{4}$ etc. are examples of unit fractions.
Mixed Number	A number formed of both an <b>integer part</b> and a <b>fraction part</b> .	$3\frac{2}{5}$ is an example of a mixed number.
Simplifying Fractions	Divide the numerator and denominator by the highest common factor.	$\frac{20}{45} = \frac{4}{9}$
Equivalent Fractions	Fractions which represent the same value.	$\frac{2}{5} = \frac{4}{10} = \frac{20}{50} = \frac{60}{150} \text{ etc.}$

## **Using Fractions**

Fraction of an Amount	Divide by the bottom, times by the top	Find $\frac{2}{5}$ of £60
		$60 \div 5 = 12$
		$12 \times 2 = 24$
Multiplying Fractions	Multiply the numerators together and multiply	3 2 6 1
	the <b>denominators</b> together.	$\frac{1}{8} \times \frac{1}{9} = \frac{1}{72} = \frac{1}{12}$
Dividing Fractions	'Keep it, Flip it, Change it – KFC'	3 5 3 6 18 9
	Keep the first fraction the same	$\frac{1}{4} \div \frac{1}{6} = \frac{1}{4} \times \frac{1}{5} = \frac{1}{20} = \frac{1}{10}$
	Flip the second fraction upside down	
	Change the divide to a multiply	
	Multiply by the reciprocal of the second	
	fraction.	

