Maths Knowledge Organiser

Key Facts

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

Using Fractions

Oshig 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 denominators together.	$\frac{7}{8} \times \frac{7}{9} = \frac{7}{72} = \frac{1}{12}$	
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.		