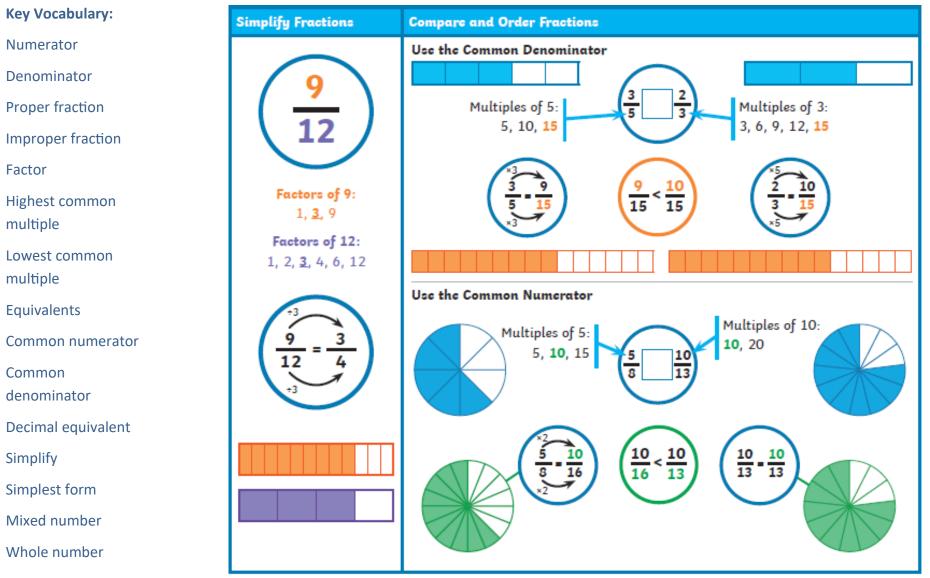


Maths Knowledge Organiser - Year 6

Fractions

Key Knowledge:



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Maths Knowledge Organiser - Year 6

Fractions

	Key Knowledge:					
Key Vocabulary:	Adding and Subtracting Proper Fractions		Adding and Subtracting Mixed Numbers			
Numerator	Same Denominators		Add or subtract the whole numbers and fractions separately.			
Denominator	$\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$	$\frac{8}{11} - \frac{3}{11} = \frac{5}{11}$	$2\frac{2}{5}+1\frac{3}{10}$	$2\frac{1}{2}-1\frac{1}{4}$		
Proper fraction	Different Denominators		2+1=3	2-1=1		
Improper fraction	$\frac{2}{7} + \frac{3}{5}$	$\frac{9}{10} - \frac{1}{4}$	$\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$	$\frac{1}{2} - \frac{1}{4} = \frac{2}{4} - \frac{1}{4} = \frac{1}{4}$		
Factor	Multiples of 7: 7, 14, 21, 28, 35 Multiples of 5: 5, 10, 15, 20,		$3 + \frac{7}{10} = 3\frac{7}{10}$	$1 + \frac{1}{4} = 1\frac{1}{4}$		
Highest common multiple	25, 30, 35 $\frac{2}{7} = \frac{10}{35}, \frac{3}{5} = \frac{21}{35}$	$\frac{9}{10} = \frac{18}{20}, \ \frac{1}{4} = \frac{5}{20}$	Convert the mixed numbers to $2\frac{2}{5} + 1\frac{3}{10}$	improper fractions. $2\frac{1}{2}-1\frac{1}{4}$		
Lowest common	$\frac{10}{35} + \frac{21}{35} = \frac{31}{35}$	$\frac{18}{20} - \frac{5}{20} = \frac{13}{20}$	5 10	2 7		
multiple	35 35 35	20 20 20	$2\frac{2}{5} = \frac{12}{5}$ $1\frac{3}{10} = \frac{12}{10}$	$\frac{3}{2} = 2\frac{1}{2} = \frac{5}{2}$ $1\frac{1}{4} = \frac{5}{4}$		
Equivalents	Multiplying Proper Fractions		$\frac{12}{5} + \frac{13}{10} = \frac{24}{10} + \frac{13}{10} = \frac{37}{10}$	$\frac{5}{2} - \frac{5}{4} = \frac{10}{4} - \frac{5}{4} = \frac{5}{4}$		
Common numerator	Multiplying Fractions by Fractions					
Common	$\frac{1}{2} \times \frac{1}{3} = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$		$\frac{1}{10} = 3\frac{1}{10}$	$\frac{5}{4} = 1 \frac{1}{4}$		
denominator	Multiplying Fractions by Whole Numbers		Dividing Fractions by Whole Numbers			
Decimal equivalent		2 3 6 1	2	$2 = \frac{1}{5}$		
Simplify	$\bigoplus_{\frac{2}{5}\times 3} \xrightarrow{2} \bigoplus_{3=\frac{3}{1}}$	$\frac{2}{5} \times \frac{3}{4} = \frac{3}{5} = 1\frac{1}{5}$	5	$2 = \frac{1}{5}$		
Simplest form	3= <u>1</u>	5 1 5 5	Multiplication and division are			
Mixed number			$\div 2$ is the same as $\times \frac{1}{2}$ 2 1 2			
Whole number			- 5×	$\frac{1}{2} = \frac{2}{10}$		