## Year 7 Strand 4



A mathematical expression representing the	$\frac{2}{7}$ is a 'proper' fraction.
division of one integer by another.	7
Fractions are written as two numbers separated by a horizontal line.	$\frac{9}{4}$ is an 'improper' or 'top-heavy' fraction.
The <b>top</b> number of a fraction.	In the fraction $\frac{3}{5}$ , 3 is the numerator.
The <b>bottom</b> number of a fraction.	In the fraction $\frac{3}{5}$ , 5 is the denominator.
A number formed of both an integer part and a fraction part.	$3\frac{2}{5}$ is an example of a mixed number.
Divide the numerator and denominator by the highest common factor.	$\frac{20}{45} = \frac{4}{9}$
Fractions which represent the same value.	$\frac{2}{5} = \frac{4}{10} = \frac{20}{50} = \frac{60}{150} etc.$
7. Comparing Fractions To compare fractions, they each need to be rewritten so that they have a common denominator.  Ascending means smallest to biggest.	Put in to ascending order: $\frac{3}{4}$ , $\frac{2}{3}$ , $\frac{5}{6}$ , $\frac{1}{2}$ .
	Equivalent: $\frac{9}{12}, \frac{8}{12}, \frac{10}{12}, \frac{6}{12}$ Correct order: $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$
Descending means biggest to smallest.	2 0 1 0
Divide by the bottom, times by the top	Find $\frac{2}{5}$ of £60 $60 \div 5 = 12$ $12 \times 2 = 24$
Use equivalent fractions to change each fraction to the common denominator.	$12 \times 2 = 24$ $\frac{2}{3} + \frac{4}{5}$
Fractions  Then just add or subtract the numerators and keep the denominator the same.	$\frac{2}{3} = \frac{10}{15} \qquad \frac{4}{5} = \frac{12}{15}$
	$\frac{10}{15} + \frac{12}{15} = \frac{22}{15} = 1\frac{7}{15}$
Multiply the numerators together and multiply the denominators together.	$\frac{3}{8} \times \frac{2}{9} = \frac{6}{72} = \frac{1}{12}$
'Keep it, Flip it, Change it - KFC' Keep the first fraction the same Flip the second fraction upside down Change the divide to a multiply	$\frac{3}{4} \div \frac{5}{6} = \frac{3}{4} \times \frac{6}{5} = \frac{18}{20} = \frac{9}{10}$
	The top number of a fraction.  The bottom number of a fraction.  A number formed of both an integer part and a fraction part.  Divide the numerator and denominator by the highest common factor.  Fractions which represent the same value.  To compare fractions, they each need to be rewritten so that they have a common denominator.  Ascending means smallest to biggest.  Descending means biggest to smallest.  Divide by the bottom, times by the top  Use equivalent fractions to change each fraction to the common denominator.  Then just add or subtract the numerators and keep the denominator together and multiply the denominators together.  'Keep it, Flip it, Change it - KFC' Keep the first fraction upside down