

Stage 6	Stage 7	Stage 8/Foundation	Stage 9/FH	Stage 10/Higher	Stage 11/Higher+
<div>compare and order fractions, including fractions > 1</div> <div>use common factors to simplify fractions; use common multiples to express fractions in the same denomination</div>	<div>order positive and negative integers, decimals and fractions</div>				Equivalence
<div>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</div> <div>multiply simple pairs of proper fractions, writing the answer in its simplest form</div> <div>divide proper fractions by whole numbers</div>	<div>express one quantity as a fraction of another, where the fraction is less than 1 or greater than 1</div>	<div>calculate exactly with fractions</div>			Fractions
<div> <div>solve problems which require answers to be rounded to specified degrees of accuracy</div> <div>multiply one-digit numbers with up to two decimal places by whole numbers</div> </div> <div> <div>use written division methods in cases where the answer has up to two decimal places</div> <div>identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000</div> </div>	<div>order positive and negative integers, decimals and fractions</div> <div>use standard units of mass, length, time, money and other measures (including standard compound measures) using decimal quantities where appropriate</div>				Decimals
<div>solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison</div> <div>(Ratio & Proportion)</div>	<div> <div>define percentage as 'number of parts per hundred'</div> <div>interpret % and %e changes as a fraction or a decimal, and interpret these multiplicatively</div> </div> <div> <div>express one quantity as a percentage of another</div> <div>compare two quantities using percentages</div> </div> <div>solve problems involving percentage change, including percentage increase/decrease</div>	<div>work with percentages greater than 100%</div> <div>solve problems involving percentage change, including original value problems, and simple interest including in financial mathematics</div>			Percentages
<div>use common factors to simplify fractions; use common multiples to express fractions in the same denomination</div> <div>associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]</div> <div>recall and use equivalences between simple fractions, decimals and percentages, including in different contexts</div>	<div>interpret fractions and percentages as operators</div>	<div>work interchangeably with terminating decimals and their corresponding fractions (such as 3.5 and 7/2 or 0.375 or 3/8)</div>		<div>change recurring decimals into their corresponding fractions and vice versa</div>	FDP conversions
<div>solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts</div> <div>solve problems involving similar shapes where the scale factor is known or can be found</div> <div>solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</div>	<div>use ratio notation, including reduction to simplest form</div> <div>divide a given quantity into two parts in a given part:part or part:whole ratio</div>	<div> <div>express a relationship between two quantities as a ratio or a fraction</div> <div>relate ratios to fractions and to linear functions</div> <div>use scale factors, scale diagrams and maps</div> </div> <div> <div>understand and use proportion as equality of ratios</div> <div>compare lengths, areas and volumes using ratio notation</div> <div>identify and work with fractions in ratio problems</div> </div>	<div>solve problems involving direct and inverse proportion, including graphical and algebraic representations</div>	<div> <div>understand that X is inversely proportional to Y is equivalent to X is proportional to 1/Y</div> <div>interpret equations that describe direct and inverse proportion</div> </div> <div> <div>set up, solve and interpret the answers in growth and decay problems, including compound interest</div> <div>recognise and interpret graphs that illustrate direct and inverse proportion</div> </div>	<div>construct equations that describe direct and inverse proportion</div> <div>Ratio and proportion</div>



Fractions, Decimals, Percentages, Ratio and Proportion