

	Counting in Fractional Steps	Recognising Fractions	Comparing Fractions
R			
Y1		 recognise, find and name a half as one of two equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity 	
Y2	 Pupils should count in fractions up to 10, starting from any number and using the 1/2 and 2/4 equivalence on the number line. 	 recognise, find, name and write fractions 1/3 ¼ 2/4 and ¾ of a set of objects, shape, quantity or length 	
Y3	• count up and down in tenths	 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators (2,5,10,3,4,8) recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10. recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (2,5,10,3,4,8) 	compare and order unit fractions, and fractions with the same denominators
Y4	count up and down in hundredths	 recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten 	 compare and order unit fractions, and fractions with the same denominators (Consolidation from Year 3)
Y5		 recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (See Equivalence) 	• compare and order fractions whose denominators are all multiples of the same number
Y6			• compare and order fractions, including fractions >1

	Comparing Decimals	Rounding Including Decimals Eq	uivalence (Including Fractions, Decimals and Percentages)
R			
Y1			
Y2			• write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$
Y3			 recognise and show, using diagrams, equivalent fractions with small denominators
Y4	compare numbers with the same number of decimal places up to two decimal places	 round decimals with one decimal nearest whole number 	 recognise and show, using diagrams, families of common equivalent fractions recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to ¼, ½ and ¾
Y5	read, write, order and compare numbers with to three decimal places	• round decimals with two decimal p the nearest whole number and to o place	

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п	Y	6

- identify the value of each digit in numbers given to three decimal places
- solve problems which require answers to be rounded to specified degrees of accuracy, up to 2 decimal places.
- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8)
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

	Addition and Subtraction of Fractions	Multiplication and Division of Fractions
R		
Y1		
Y2		
Y 3	• add and subtract fractions with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$)	
Y4	add and subtract fractions with the same denominator	•
Y5	 add and subtract fractions with the same denominator and multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 (e.g.) 2/5 = 4/5 = 6/5 = 1 1/5. 	 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Y6	add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	 multiply simple pairs of proper fractions, writing the answer in its simplest form ¼ x ½ = 1/8 multiply one-digit numbers with up to two decimal places by whole numbers divide proper fractions by whole numbers 1/3 ÷ 2 = 1/6

	Multiplication and Division of Decimals	Problem Solving
R		
Y1		
Y2		
Y3		• solve problems that involve addition and subtraction of fractions
Y4	 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths, and hundredths 	 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number solve simple measure and money problems involving fractions and decimals to two decimal places.
Y5		 solve problems involving numbers up to three decimal places solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5 and 4/5 and those with a denominator of a multiple of 10 or 25.

Y6

- multiply one-digit numbers with up to two decimal places by whole numbers
- multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
- identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
- associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. ³/₈)
- use written division methods in cases where the answer has up to two decimal places