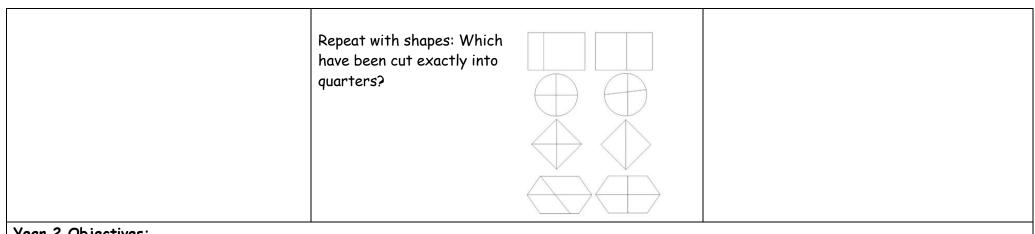
Fractions

Foundation Stage Objectives: See Division section of policy.

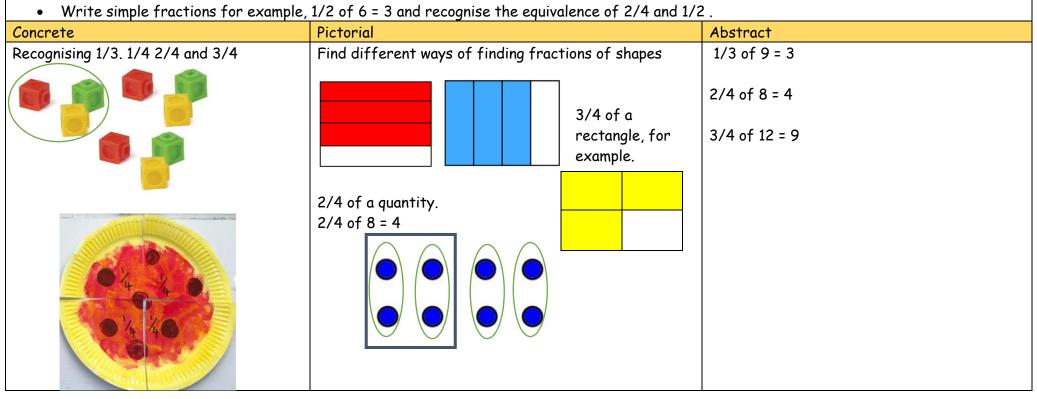
Year 1 Objectives:

Concrete	Pictorial	Abstract
Pupils will use practical objects, including within their role play and outside areas to find 1/2 and 1/4 of different amounts and shapes. Bar Model using strips of paper, I find 1/2 and 1/4 by folding and cutting different sizes and shapes in order to support their understanding of fractions. FRACTIONS To show a whole.	E.g. find half $(\frac{1}{2})$ of the items on each picture or shape. Do the same for a quarter (1/4).	Half of 10 = 5 1/2 of 6 = 3 A quarter of 20 = 1/4 of 8 = 2
1 WHOLE		



Year 2 Objectives:

Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity



1/2 = 2/4

Recognise equivalence.





1/2 of 12 = 6

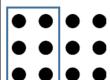
2/4 of 12 = 6

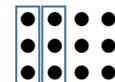
2/4 of a pie

1/2 of a pie

1/2 of 12

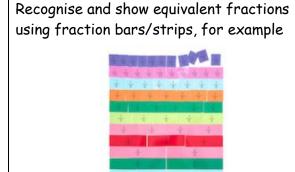
= 2/4 of 12

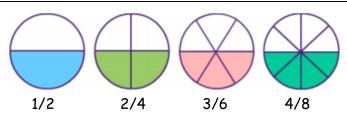




Year 3 Objectives:

- Recognise and show, using diagrams, equivalent fractions with small denominators
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
- 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



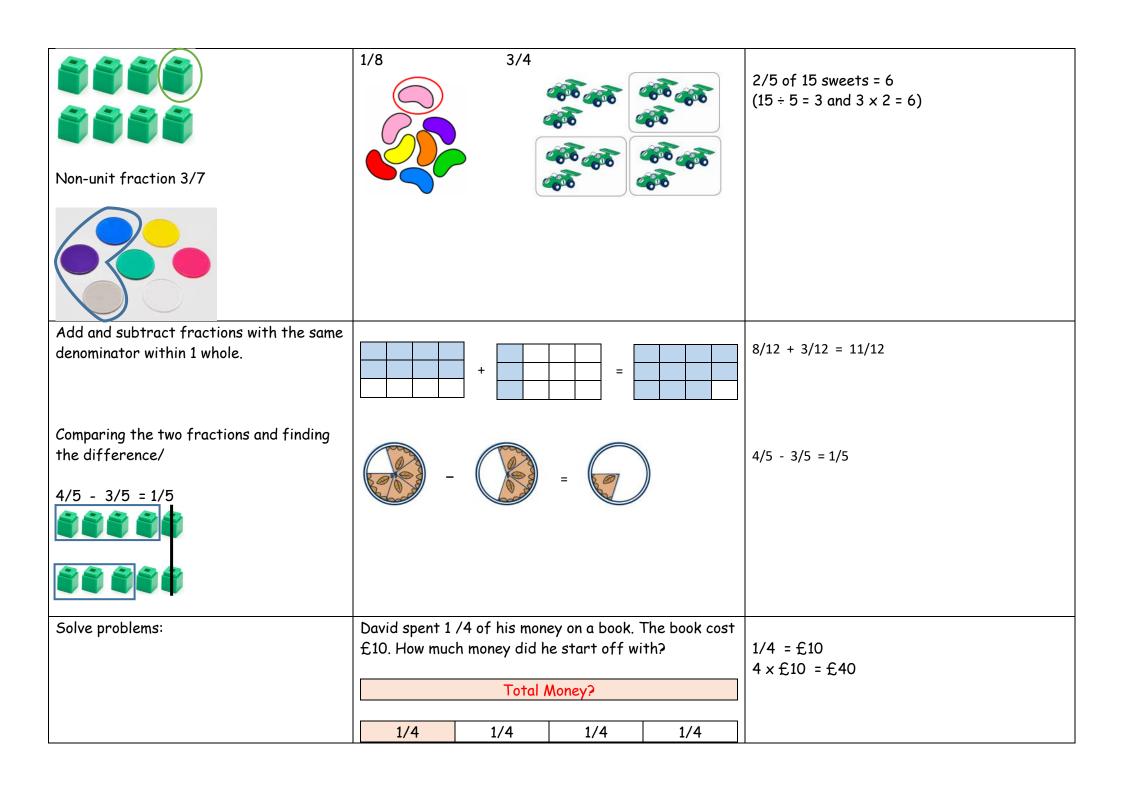


David says two sixths is the same as one third. Is he correct? How do you know?

Fractions of a discrete set of objects.

Unit fraction 1/8

1/5 of 15 sweets = 3 (15 ÷ 5 = 3)

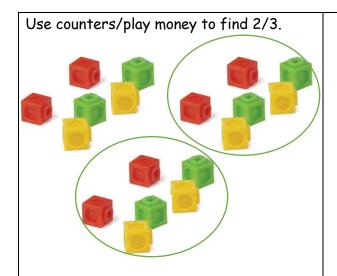


	£10	£10	£10	£10	
	D:				A1
Concrete	Pictorial				Abstract

Year 4 Objectives:

- Add and subtract fractions with the same denominator
- 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

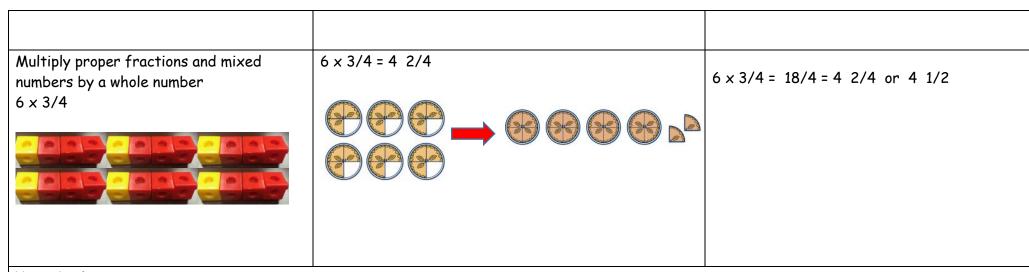
Concrete	Pictorial	Abstract
Adding and subtracting fractions as above		3/8 + 5/8 = 8/8 (same as 1 whole)
		6/7 - 4/7 = 2/7
Solve problems including non-unit fractions	2/3 of £18 =	2/3 of £18 = £18 ÷ 3 = £6 £6 x 2 = £12



Year 5 Objectives:

- Add and subtract fractions with the same denominator and denominators that are multiples of the same number
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $2/5 + 4/5 = 6/5 = 1 \ 1/5$]
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

Concrete	Pictorial	Abstract
Add and subtract fractions with same denominator and denominators that are multiples of the same number, and	+ = +	4/6 + 3/6 = 7/6 = 1 1/6
recognise mixed numbers and improper fractions. 2/3 + 2/3 = 4/3 = 1 1/3	4/6 + 3/6 = 1 whole + 1/6 (7/6)	1 1/6 = 7/6 (because 1 = 6/6)
		2/5 - 1/4 =
		2/5 - 1/4 X4 ×5
	2/5 - 1/4 = 8/20 - 5/20 = 3/20	8/20 - 5/20 = 3/20



Year 6 Objectives:

- 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 [for example, $1/4 \times 1/2 = 1/8$]
- Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]

Concrete	Pictorial	Abstract
Add and Subtract fractions - as year 5	2 1/6 - 1/3	2 1/6 - 1/3 (find the same denominator)
With mixed numbers	- = -	2 1/6 - 2/6 (change 1 whole into a fraction and add to the existnig fraction)
	2 1/6 - 1/3 = 1 5/6	1 7/6 - 2/6 = 1 5/6
Multiply simple pairs of proper fractions.	1/2 × 3/4	1/2 × 3/4 = 3/8
	3/4 of which half is	 Multiply the numerator. Multiply the denominator. Simplify where possible.
	shaded	

