Topic Progression Map

FRACTIONS



3 Years

7 Years

16 Years

Mathematical **Foundations**



- 1) Share things out between people by counting in 1's
- 2) work out whether an amount can be shared out fairly or not
- 3) Double and halve numbers
- 4) Understand what ½ and ¼ mean

Test your Understanding

- 1) a) Share out these 10 buttons between me and you so it is fair. How much do we have each?
 - b) Share out these 12 buttons between 4 people
- 2) a) Which of these numbers of sweets can be shared out fairly between 2 people? 4,5,6,7,8,9,10
- 3) What is double 12? What is half of 16
- 4) Shade ½ of this shape. Shade ¼ of this shape
- 5) a) Find ½ of 32 b) Find 1/4 of 28

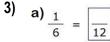
Key Skills and Concepts

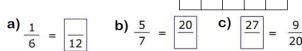


- 1) Share out or cut an object fairly between a set number of people
- 2) Write down the fraction for a shaded diagram
- 3) Understand equivalent fractions
- 4) Simplify fractions and convert to mixed numbers
- 5) Recognise common conversions to percentages and decimals
- 6) Find fractions of amounts
- 7) Add and subtract simple fractions

Test your Understanding

- 1) Cut this rectangle into thirds
- 2) What fraction is shaded?





- 4) a) simplify $\frac{18}{30}$ b) Express $\frac{17}{5}$ as a mixed number
- 5) Write as %'s and decimals:

- 6) a) $\frac{1}{8}$ of 24 b) $\frac{3}{5}$ of 65
- - a) $\frac{1}{6} + \frac{5}{12}$ b) $\frac{3}{4} + \frac{5}{6}$ c) $\frac{6}{7} \frac{3}{5}$

Optimise GCSE Performance

11 Years



- 1) Use calculator methods to find fractions of amounts
- 2) Use calculator methods to convert fractions, decimals and percentages
- 3) Add and subtract mixed numbers
- 4) Multiply and divide fractions and mixed numbers
- 5) Solve real life worded problems involving fractions
- 6) Use the bar model to solve reverse fraction problems

Test your Understanding

- 1) a) $\frac{5}{6}$ of £3423 b) Decrease £3450 by $\frac{1}{3}$
- 2) a) Write $\frac{7}{8}$ as a decimal
 - b) Jim got 24 out of 30. What % did he get?
- 3) a) $2\frac{1}{6} + 3\frac{2}{3}$ b) $2\frac{1}{4} + 1\frac{5}{7}$
- $=\frac{9}{20}$ 4) a) $\frac{5}{6}$ x $\frac{7}{10}$ b) $\frac{7}{12} \div \frac{3}{4}$ c) 2 $\frac{4}{5}$ x 1 $\frac{5}{6}$
 - 5) Sara buys a box of 200 hats for £500. She wants to sell them for $\frac{1}{\epsilon}$ profit. How much should she sell each hat for?
 - $\frac{3}{5}$ of a number is 24. What is the whole number?