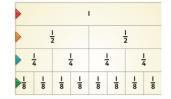
Fractions and Decimals Progression Map Year 5

- 1. Compare and order fractions with the same denominator. $Example: \frac{7}{8} > \frac{5}{8}$
- 2. Identify, name and write equivalent fractions, including tenths and hundredths.



Recognise and use tenths and hundredths and relate them to decimal equivalents.
 Example:
 3

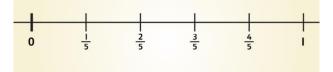
$$\frac{3}{5} = \frac{6}{10} = 0.6$$

Example: $\frac{4}{10} = \frac{2}{5}$

- 4. Find fractions of 2 and 3 digit numbers. Example: $\frac{2}{3}$ of 60 (60 ÷ 3) x 2 = 40
- 5. Compare and order fractions, including mixed numbers, whose denominators are all multiples of the same number.

Example: $\frac{41}{4}$, $\frac{43}{8}$, $\frac{47}{16}$

Place fractions on a number line and count in steps of a given fraction.
 Example:



- 7. Recognise mixed numbers and improper fractions and convert from one form to the other. Example: $\frac{20}{7} = 2\frac{6}{7}$ (20 ÷ 7 = 2 remainder 6)
- 8. Multiply proper fractions by whole numbers in a practical or real-life context.
 Example: Fred has a one seventh share of £42. How much does he receive? = ¹/₇ of 42 = (42 ÷ 7) = 6
- 9. Reduce fractions to their simplest form. Example: $\frac{8}{16} = \frac{1}{2}$
- 10. Convert improper fractions (top-heavy fractions) to mixed numbers (a whole number and fraction). Example: $\frac{14}{4} = 3 \frac{1}{2}$ (14÷4 = 3 remainder 2 or $\frac{2}{4} = \frac{1}{2}$ $\frac{16}{6} = 2\frac{2}{3}$
- 11. Convert mixed numbers (a whole number and a fraction) to improper fractions (top-heavy fraction). Example: $4\frac{5}{7} = (4x7 + 5) 7^{\text{ths}} = \frac{33}{7}$

- 12. Read and write decimal numbers as fractions. Example: $0.71 = \frac{71}{100}$
- 13. Multiply proper fractions by whole numbers.
 - Example: $2 \times \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$



14. Add and subtract fractions with the same denominator and denominators that are multiples of the same whole number.

Example:



- 15. Write percentages as a fraction with denominator 100 and as a decimal. Example: $15\% = \frac{15}{100} = 0.15$
- 16. Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.
 Example: 0.5 = ½ = 50% ¼ of 28 children like swimming. What is this as a percentage? How many children is this?