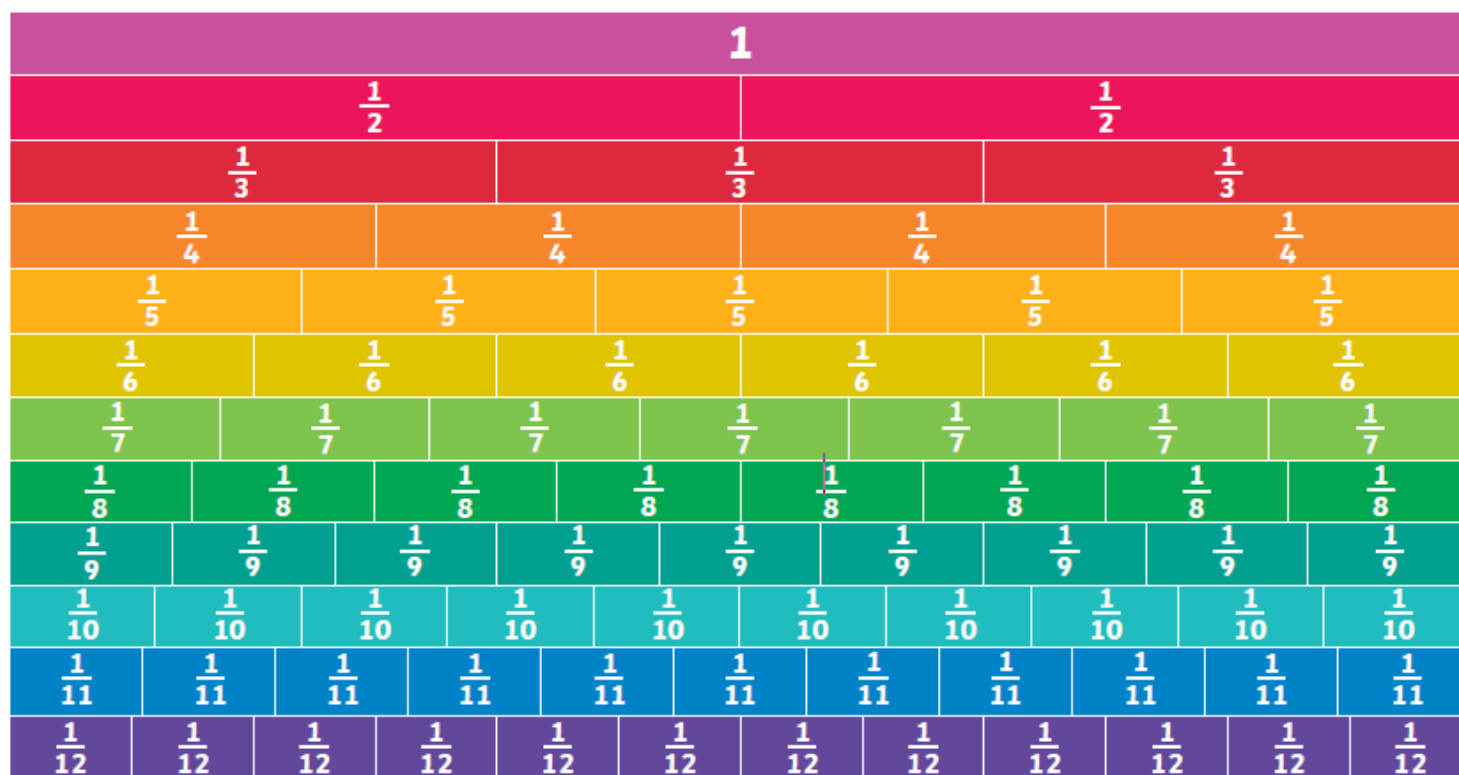


Key Vocabulary

numerator
denominator
unit fraction
non-unit fraction
equivalent
quantities
whole
halves
thirds
quarters
fifths
eighths
tenths

Fraction Families



mixed number
proper fraction
improper fraction
simplify
compare
greater/less than

Fractions of Quantities

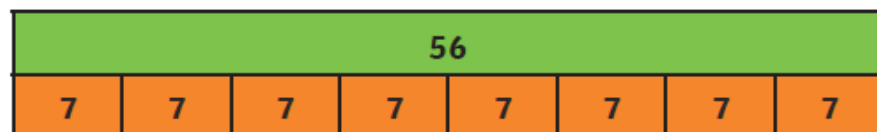
To find a fraction of a number, divide by the denominator and multiply by numerator.

To find quarters of 20:



$$\frac{1}{4} \text{ of } 20 = 5 \quad \frac{2}{4} \text{ of } 20 = 10 \quad \frac{3}{4} \text{ of } 20 = 15 \quad \frac{4}{4} \text{ of } 20 = 20$$

To find eighths of 56:



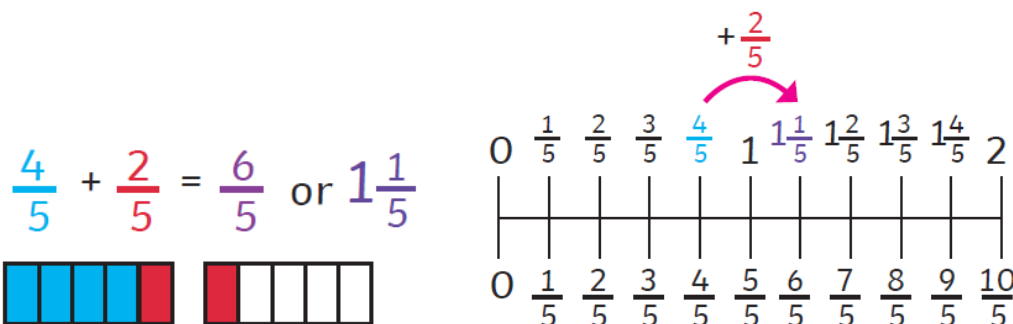
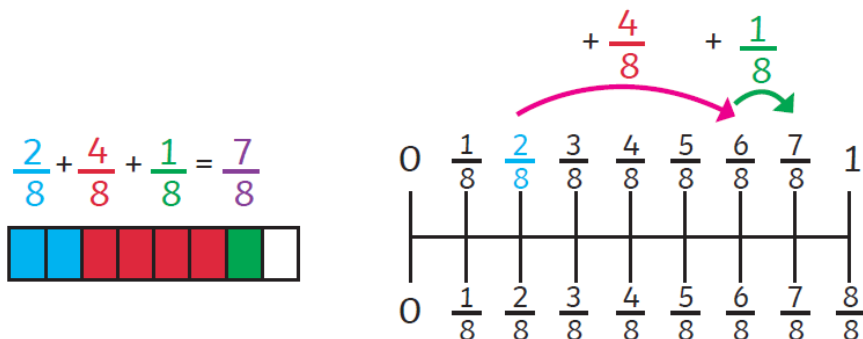
$$\begin{array}{llll} \frac{1}{8} \text{ of } 56 = 7 & \frac{2}{8} \text{ of } 56 = 14 & \frac{3}{8} \text{ of } 56 = 21 & \frac{4}{8} \text{ of } 56 = 28 \\ \frac{5}{8} \text{ of } 56 = 35 & \frac{6}{8} \text{ of } 56 = 42 & \frac{7}{8} \text{ of } 56 = 49 & \frac{8}{8} \text{ of } 56 = 56 \end{array}$$

Fractions

Knowledge Organiser

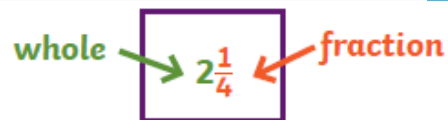
Adding Fractions

Fractions can be added when the denominators are the same.

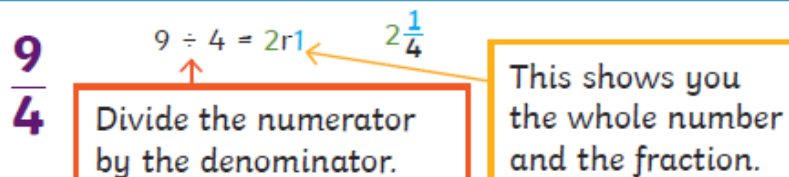


Mixed Numbers

Mixed numbers contain a whole number and a fraction.

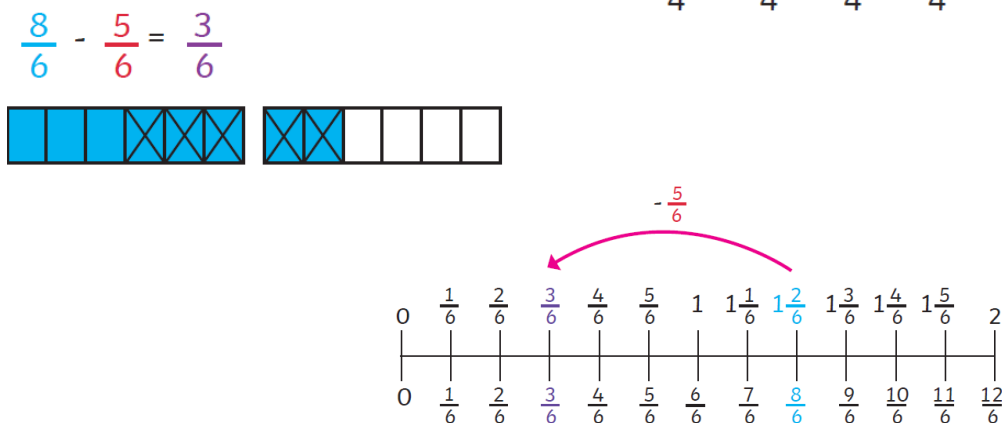
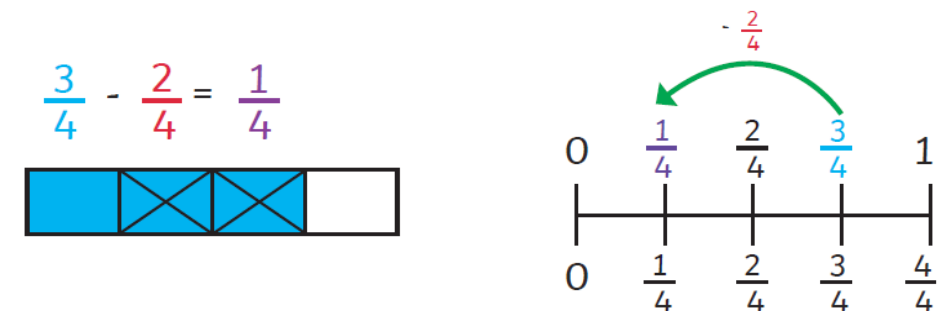


Convert an Improper Fraction to a Mixed Number



Subtracting fractions

Fractions can be subtracted when the denominators are the same.



Improper Fractions

An improper fraction has a numerator which is greater than or equal to the denominator.

$$\frac{5}{3}$$

Convert a Mixed Number to an Improper Fraction

Multiply the whole by the denominator to make an improper fraction.

$$2\frac{5}{6} = \frac{12}{6} + \frac{5}{6} = \frac{17}{6}$$

Add the fractions together.