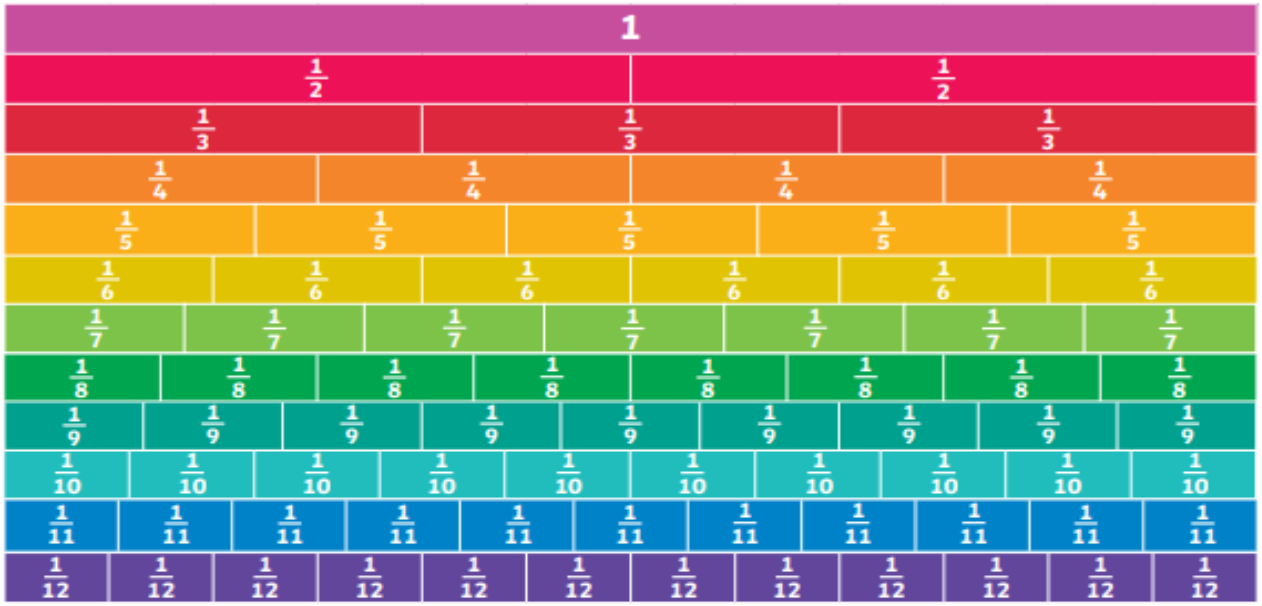
Fractions — Knowledge Organiser

Key Vocabulary

- numerator
- denominator
- unit fraction
- non-unit fraction
- equivalent
- quantities
- whole
- halves
- thirds
- quarters
- fifths
- sixths
- sevenths
- eighths
- ninths
- tenths
- elevenths
- twelfths
- quantities

Year 4

Fraction Families



Fractions of Quantities

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

To find quarters of 20:

20			
5	5	5	5

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

To find eighths of 56:

56							
7	7	7	7	7	7	7	7

$\frac{1}{8}$ of 56 = 7 $\frac{2}{8}$ of 56 = 14 $\frac{3}{8}$ of 56 = 21 $\frac{4}{8}$ of 56 = 28

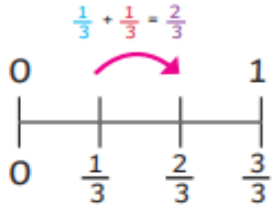
$\frac{5}{8}$ of 56 = 35 $\frac{6}{8}$ of 56 = 42 $\frac{7}{8}$ of 56 = 49 $\frac{8}{8}$ of 56 = 56

Fractions — Knowledge Organiser

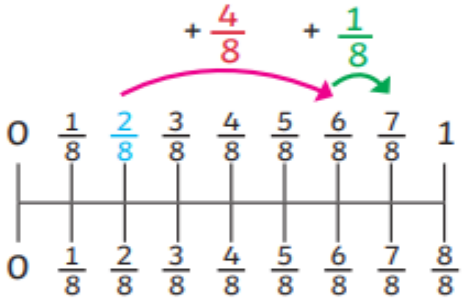
Adding Fractions

Fractions can be added when the denominators are the same.

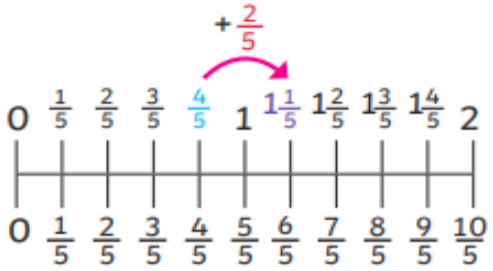
$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$



$\frac{2}{8} + \frac{4}{8} + \frac{1}{8} = \frac{7}{8}$



$\frac{4}{5} + \frac{2}{5} = \frac{6}{5}$ or $1\frac{1}{5}$



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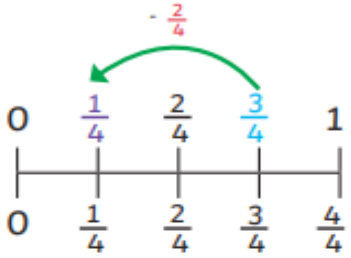
Subtracting fractions

Fractions can be subtracted when the denominators are the same.

$\frac{3}{4} - \frac{2}{4} = \frac{1}{4}$



$\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$