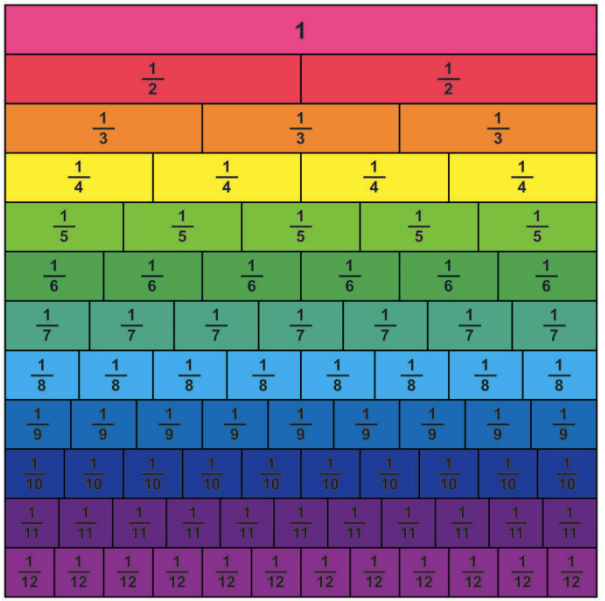
Templars Primary School Knowledge Organiser

Year 4 Fractions

Key Vocabulary

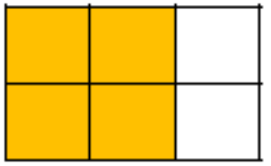
- numerator
- denominator
- unit fraction
- non-unit fraction
- equal groups
- equivalent
- quantities
- whole
- halves
- thirds
- quarters
- fifths
- sixths
- sevenths
- eighths

Fraction wall



Equivalent fractions

Equivalent fractions are fractions with different numerators and denominators that represent the same value or proportion of the whole

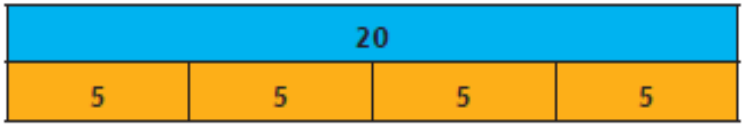


$\frac{4}{6}$ is the same as $\frac{2}{3}$

$\frac{2}{6}$ is the same as $\frac{1}{3}$

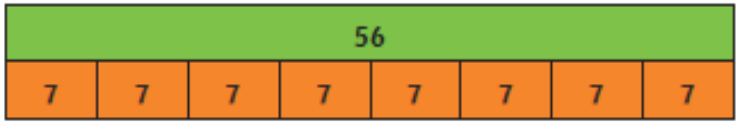
Fractions of quantities and amounts

To find a fraction of an amount or quantity, divide by the denominator and multiply by the numerator



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

To find ¾ of 20
20 ÷ 4 = 5 x 3 = 15



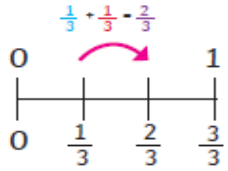
$\frac{1}{8}$ of 56 = 7 $\frac{2}{8}$ of 56 = 14 $\frac{3}{8}$ of 56 = 21 $\frac{4}{8}$ of 56 = 28

To find 6/8 of 56
56 ÷ 8 = 7 x 6 = 42

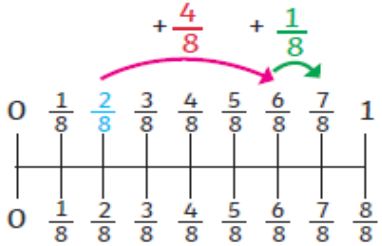
Adding fractions

To add fractions with the same denominator, add the numerators and the denominator stays the same.

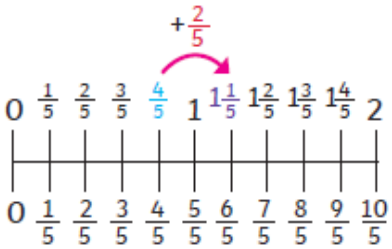
$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$



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



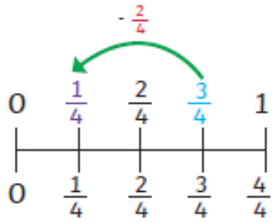
$\frac{4}{5} + \frac{2}{5} = \frac{6}{5}$ or $1\frac{1}{5}$



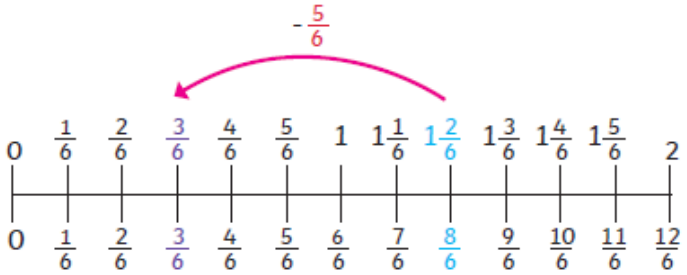
Subtracting fractions

To subtract fractions with the same denominator, subtract the numerators and the denominator stays the same.

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

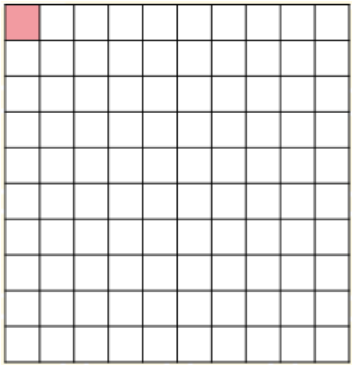


$\frac{8}{6} - \frac{5}{6} = \frac{3}{6}$



Counting in fractions / hundredths

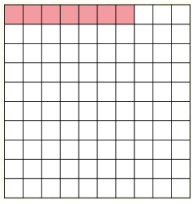
Hundredths arise where a number of objects or an object is divided into one hundred equal parts.



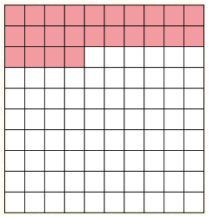
The grid has one hundred equal parts

One hundredth is shaded

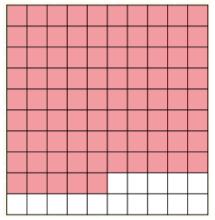
1/100 is shaded.



$\frac{7}{100}$



$\frac{24}{100}$



$\frac{85}{100}$