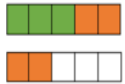


Key concepts and questions

How do you add and subtract fractions with common denominators?



$$\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1 \text{ and } \frac{2}{5}$$

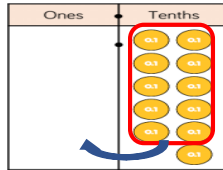
The whole is split into equal parts, the denominator tells you how many. When adding or subtracting fractions, the denominator will stay the same, add or subtract only the numerators..



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

How do you bridge with decimals?

Ten tenths equals one whole or 1. Therefore, every time there are ten tenths you exchange the tenths for one whole. So, when counting, it goes 0.7, 0.8, 0.9, 1



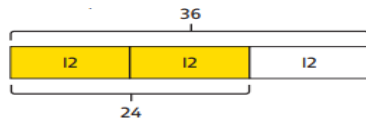
Key Vocabulary

whole	equal parts	numerator	denominator
multiply	divide	add	subtract
decimal point	less than	greater than	equal to
unit fraction	numerator = 1	tenths	10 equal parts
non unit fraction	numerator > 1	hundredths	100 equal parts
mixed number	a whole and a fraction	interval	parts between 2 number
proper fraction	a fraction less than 1	equivalent	equal or same as

Representations

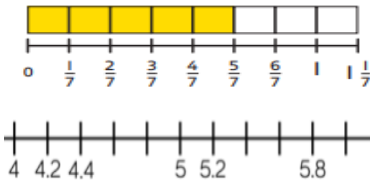
Bar Model

Represents how the whole can be split into equal parts. It also helps to solve fraction problems.



Number line

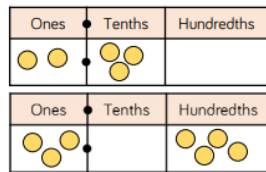
A number line is used to help place fractions and decimals in order. It can be used to add and subtract fractions.



Place Value Chart

To show the value of tenths and hundredths.

Also, helps with dividing and multiplying by 10 and 100.



Making connections

Multiplication and division

Fractions can be used to find quantities of amounts.

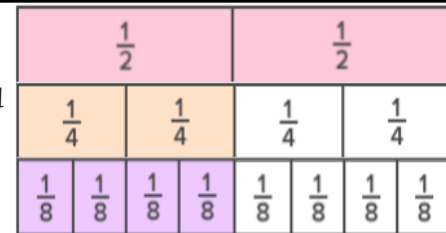
Divide the whole by the denominator to find how much each part is worth. Then multiply the part by the numerator. $\frac{1}{4}$ of 12 = 3



$$\frac{3}{4} \text{ of } 12 = 9$$

Doubles and halves

Doubles and halves help to find equivalent fractions.
e.g. $\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$ Both the numerator and denominator were doubled.
 $\frac{2}{6} = \frac{1}{3}$ Both the numerator and denominator were halved.



Equivalent decimals and fractions

$$\frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5 \quad \frac{3}{4} = 0.75$$