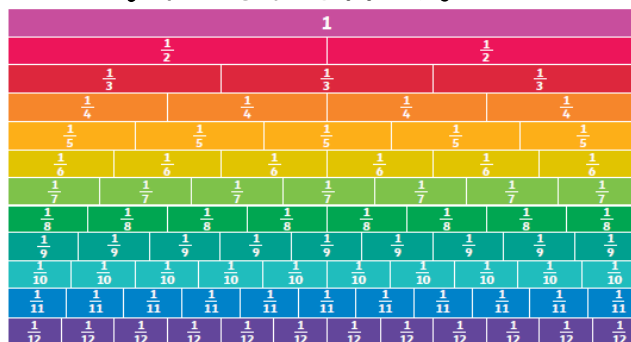


Key Vocabulary	
Fraction	A fraction is part of a whole of a section given.
Decimal	A decimal shows numbers that are in between two whole numbers.
Percentage	A percentage is a special fraction. The % sign means 100.
Part	Each quantity or given shape has parts to it.
Whole	Whole is the total quantity/all of the shape..
Equal	When both/all parts have exactly the same amount or value.
Share	Splitting something into equal parts or groups.
Equivalent	Equivalent refers to two values, numbers or quantities which are the same.
Unit fractions	A fraction where the numerator (top number) is 1.
Non-unit fractions	A fraction where the numerator (top number) is greater than 1.

Fraction Wall



Fractions of Quantities

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

To find quarters of 20:

5	5	5	5
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$\frac{1}{4}$ 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:

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

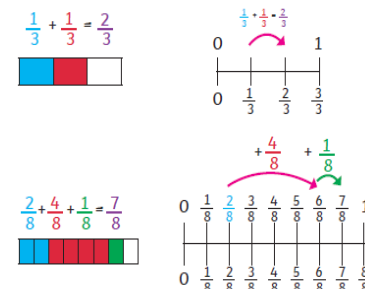
Fractions of Amounts

$\frac{1}{4}$ of 24 = 6

$\frac{1}{3}$ of 72 = 24

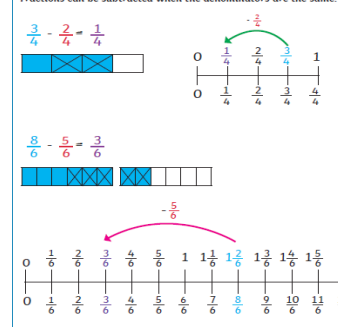
Adding Fractions

Fractions can be added when the denominators are the same.

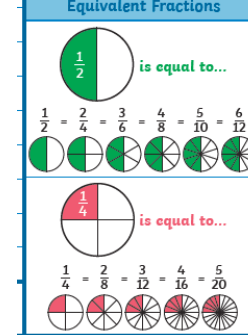


Subtracting fractions

Fractions can be subtracted when the denominators are the same.



Equivalent Fractions



How to help

The best way to show children halving, is to actually give them an even number of objects (for example: sweets, pasta shapes or counters). Ask them to divide the group into two groups of the same number.

To find fractions of amounts using small objects as counters will really help them with this. If they need to find $\frac{1}{5}$ of 15, get them to count out 15 objects. Explain that because they are finding $\frac{1}{5}$, they need to divide the objects into five equal groups. You could draw 5 circles on a piece of paper to help them with this. Once they have done this, explain to them that each circle contains a fifth of 15 (3). Once they have got the hang of this, they will need to start using mental division for working out these kinds of questions (for example: $\frac{1}{4}$ of 20 is the same as $20 \div 4$, which equals 5).

To relate fractions to decimals and percentages you can use an empty hundred number square. Ask your child to colour half the squares. Explain to them that they have coloured $\frac{1}{2}$, but they have also coloured $\frac{50}{100}$. We write this in decimal form as 0.5.

Recognising Fractions

Numerator
How many equal parts of the whole are needed?

Denominator
How many equal parts are in the whole?

