

Fractions



Year 1

One half is one of two equal parts

One quarter is one of four equal parts

$\frac{1}{2}$ of each shape is yellow.

Share equally into 2 groups

$\frac{1}{4}$ of each shape is yellow.

Share into 4 equal groups



Year 2

One third is one of three equal parts

$\frac{1}{3}$ of the whole is yellow

Share equally into 3 groups

$\frac{3}{4}$ of the whole is yellow

3 of 4 equal parts

Two quarters are equivalent to one half

$\frac{2}{4}$ of the whole is yellow

$\frac{1}{2}$ of the whole is yellow



Year 3

Unit fractions have a numerator of 1

Non-unit fractions have a numerator greater than 1

$\frac{2}{3}$ is 2 one thirds

$\frac{4}{7} < \frac{6}{7}$

When the denominators are the same, the larger the numerator, the larger the fraction.

When numerators are the same, the larger the denominator the smaller the fraction.



Year 4

$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

$\frac{5}{5} - \frac{2}{5} = \frac{3}{5}$

When adding fractions with the same denominators the denominator stays the same, just add the numerators.

When subtracting fractions with the same denominators the denominator stays the same, just subtract the numerators.



Year 5

$\frac{4}{7} + \frac{5}{7} = \frac{9}{7}$

$\frac{13}{9} - \frac{7}{9} = \frac{6}{9}$

$\frac{1}{6}$ of 18 = 3

$\frac{5}{6}$ of 18 = 15

$\frac{1}{3} \times 3 = \frac{3}{3}$

Use the same multiplier on the numerator and denominator.



Year 6

$\frac{3}{4} = \frac{6}{8}$

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

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

$\frac{1}{2} \div \frac{1}{4} = \frac{1}{2} \times \frac{4}{1} = \frac{4}{2} = 2$

$\frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times \frac{8}{1} = \frac{8}{2} = 4$

$\frac{1}{2} \div \frac{1}{16} = \frac{1}{2} \times \frac{16}{1} = \frac{16}{2} = 8$

Simplify

$\frac{7}{14} = \frac{1}{2}$

Compare

$\frac{3}{8} < \frac{3}{7}$

$\frac{3}{7} < \frac{3}{6}$

$\frac{3}{6} < \frac{3}{5}$

The larger the denominator the smaller the equal parts.

Order

$\frac{5}{6}$ more than $\frac{1}{2}$

$\frac{2}{5}$ less than $\frac{1}{2}$

$\frac{8}{7}$ more than 1

$\frac{13}{4}$ more than $1\frac{1}{2}$

Year 6 Term 3

$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

$\frac{3}{4} - \frac{2}{3} = \frac{9}{12} - \frac{8}{12} = \frac{1}{12}$

$\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

$\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

$\frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times \frac{8}{1} = \frac{8}{2} = 4$

$\frac{1}{2} \div \frac{1}{16} = \frac{1}{2} \times \frac{16}{1} = \frac{16}{2} = 8$