

Number

Fractions of amounts

$\frac{3}{5}$ of £35 is £21

$$35 \div 5 = 7$$

$$7 \times 3 = 21$$

Divide by the bottom,
times by the top.

Ratio

Bart and Lisa share £35 in a ratio of 3:4.
How much money do they get each?

Bart	£5	£5	£5	
Lisa	£5	£5	£5	£5

$$35 \div 7 = 5$$

£15 : £20

A ratio is written in the order the names/objects appear in the question.

Express as a percentage

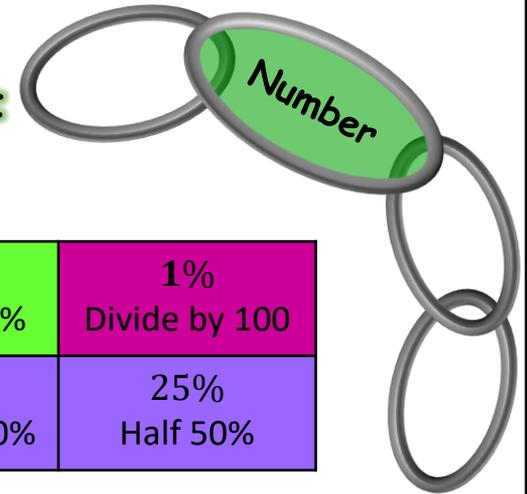
Remember per cent means out of 100.

Example There are 200 people in Year 7 and 126 girls. What percentage are girls?

Write as a fraction ____ out of ____.

Percentages of an amount

10% Divide by 10	5% Half 10%	1% Divide by 100
20% Double 10%	50% Half 100%	25% Half 50%



Percentage increase or decrease

Increase Add the percentage amount (inflation, interest, rise, etc.).

Interest of 2%

$$\text{Calculation} = \frac{100+2}{100} \times \text{Amount} = 1.02 \times \text{Amount}$$

Decrease Subtract the percentage amount (sale, deflation, fall, depreciation, etc.).

Deflation of 13%

$$\text{Calculation} = \frac{100-13}{100} \times \text{Amount} = 0.87 \times \text{Amount}$$



What to put in a calculator

$$126 \div 200 = 0.63$$

$$0.63 \times 100 = 63\%$$

$$\frac{126}{200} \times 100 = 63\%$$