

# Number – Percentages

## Find a percentage of an amount

- Divide the amount by 100
- Multiply by the percentage you need

Find 37% of 243

$$243 \div 100 = 2.43$$

$$2.43 \times 37 = 89.91$$

$$37\% \text{ of } 243 = 89.91$$

Increase £48 by 15%

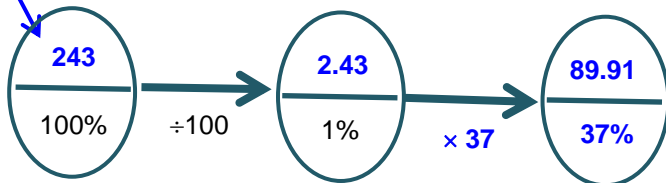
$$48 \div 100 = 0.48$$

$$0.48 \times 15 = 7.2$$

$$48 + 7.2 = 55.2$$

The increased amount is £55.20

You may prefer to use this diagram to find a percentage of an amount



- A percentage is a special fraction
- The denominator is always 100
- Use percentages to compare proportions

## Write as a percentage

- Make a fraction  $\frac{\text{Amount}}{\text{Total}}$
- Divide the numerator by the denominator to make a decimal
- Multiply by 100 to turn it into a percentage

I get 28 out of a total of 40 marks in a test.  
Did I get more than 75%?

$$\frac{28}{40}$$

$$28 \div 40 = 0.7$$

$$0.7 \times 100 = 70$$

I got 70% so my mark was lower than 75%

What is 350g as a percentage of 2kg?

$$2\text{kg} = 2000\text{g}$$

$$\frac{350}{2000}$$

$$350 \div 2000 = 0.175$$

$$0.175 \times 100 = 17.5$$

**350g is 17.5% of 2kg**