Your notes

GCSE Maths: revision notes

# Best buys and conversions

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## Best buys

- Compare the price of the same amount, such as the price per 100 g, or how much you get for £1. The lower price per unit is the better buy.
- 500 g for £2.40 is 48p per 100 g. 750 g for £3.30 is 44p per 100 g, so the 750 g pack is better value.
- Make sure both amounts are in the same units before you compare.

## Exchange rates

- To change pounds into another currency, multiply by the rate. To change back, divide.
- If £1 = €1.15, then £200 = €230, and €69 = £60.

## Metric conversions

- Length: 10 mm = 1 cm, 100 cm = 1 m, 1000 m = 1 km. Mass: 1000 g = 1 kg, 1000 kg = 1 tonne. Capacity: 1000 ml = 1 litre, and 1 $cm^3$ = 1 ml.
- Area and volume use the square and cube of the length factor: 1 $m^2$ = 100 × 100 = 10 000 $cm^2$, and 1 $m^3$ = 1 000 000 $cm^3$.

## Time and imperial units

- Time is not decimal: 1.25 hours = 1 hour 15 minutes.
- Imperial conversions are given in the exam, such as 5 miles ≈ 8 km and 1 kg ≈ 2.2 pounds (lb).

## Key terms

| | |
|---|---|
| **Best buy** | The option that gives the most for your money. |
| **Unit price** | The cost of one unit, such as the price per 100 g. |

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| | |
|---|---|
| **Exchange rate** | How much of one currency you get for one unit of another. |
| **Metric units** | Units based on 10, 100 and 1000, such as metres and grams. |
| **Imperial units** | Older units such as miles, pounds (lb) and pints. |
| **Conversion factor** | The number you multiply or divide by to change units. |

## Quick questions

Cover the answers and test yourself: remembering is what makes it stick.

1. Pack A: 500 g for £2.40. Pack B: 750 g for £3.30. Which is better value?
2. £1 = €1.15. How many euros is £200?
3. £1 = €1.15. How many pounds is €69?
4. How many centimetres are in 3.5 m?
5. How many grams are in 2.4 kg?
6. How many $cm^2$ are in 1 $m^2$?
7. What is 1.25 hours in hours and minutes?
8. 5 miles is about 8 km. About how many km is 25 miles?

### Answers

1. Pack B
2. €230
3. £60
4. 350
5. 2400
6. 10 000
7. 1 hour 15 minutes
8. 40 km

## What to do next

**Practise 12 questions on this topic**

**Try 4 exam questions, with mark schemes**

**Read the lesson, one step at a time**

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