

Functional Skills Certificate

XXXX/1



MATHEMATICS
Functional Mathematics Level 1
Data Sheet (Pre-release)

This data sheet can be used with candidates from:

*****day ***** 20**

Instructions

- You may write notes in this copy of the Data Sheet, but you will **not** be allowed to bring this copy, or any other notes you may have made, into the examination.
- You will be given a new Data Sheet at the start of the examination containing all the information on this sheet.

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Data Sheet for Car Journeys

A car's engine creates carbon dioxide (CO₂).

The amount of CO₂ that the engine creates is called its CO₂ emissions.

A car's CO₂ emissions are measured in grams for each kilometre travelled (g/km).

The table shows the CO₂ emissions for some cars.

Name of car	CO₂ emissions (g/km)
Smart Coupé	88
Honda Insight	101
Volkswagen Passat Bluemotion	128
Hyundai Santa Fe	191

Example

A Volkswagen Passat Bluemotion goes on a 400 km journey.

Work out the amount of CO₂ created in grams.

$$\text{CO}_2 \text{ emissions} = 128 \text{ g/km}$$

$$\text{Amount of CO}_2 = 128 \times 400$$

$$= 51\,200 \text{ grams}$$

The amount of CO₂ created on this car journey is 51 200 grams.

Turn over ►

Data Sheet for Buying Carpets Online

Carpet is sold from 4-metre wide rolls.

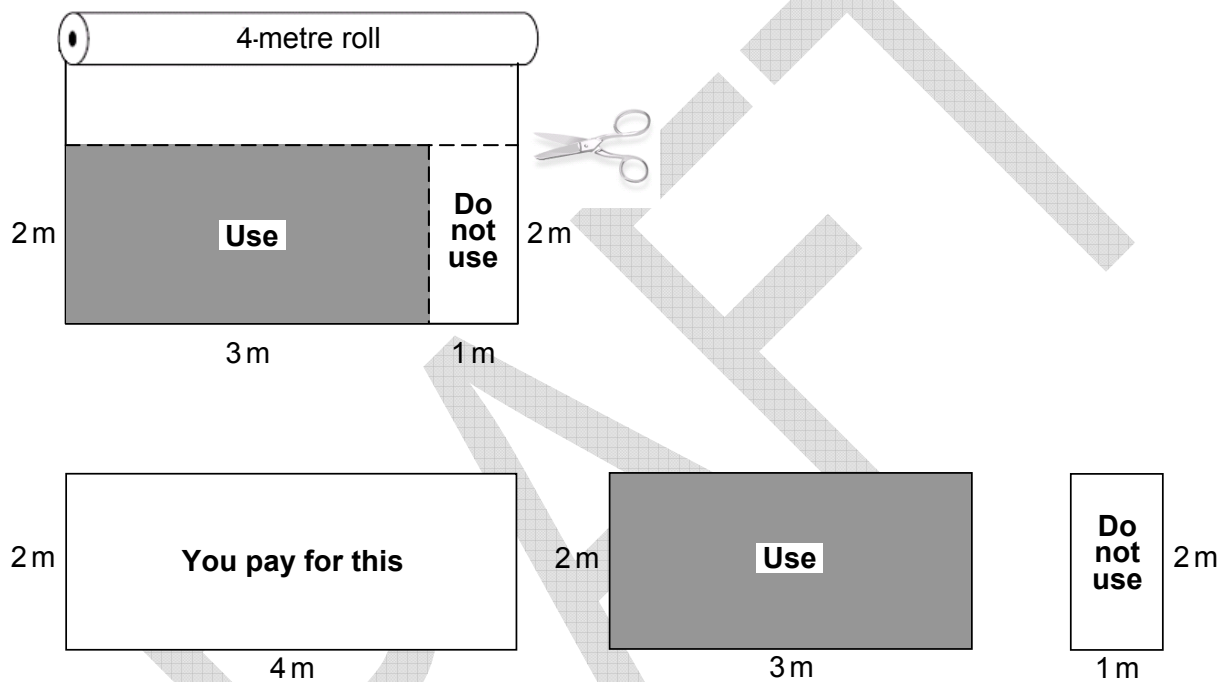
The cost of carpet is worked out from the number of square metres that you buy.

Often, when you buy a carpet, you **do not use** all the carpet you pay for.

Example

You want to buy a carpet for a rectangular room measuring 3 metres by 2 metres.

To do this cut a 2 metre length from the roll, as shown.



You **pay** for a 4 metre by 2 metre rectangle of carpet.

You **use** a 3 metre by 2 metre rectangle of carpet.

You **do not use** a 2 metre by 1 metre rectangle of carpet.

A company called *Carpets Online* sells these carpets, underlay and gripper rods.

Carpets

Carpet	Cost
High Point Twist	£ 7.99 per m ²
Rough Twist	£ 10.99 per m ²
California Dream	£ 12.99 per m ²
Essentials	£ 14.99 per m ²

Underlay

Underlay is a layer of padding under a carpet.
It can be cut and joined to fit any area.

Full roll
11m long by 1.37 m wide
Covers 15 square metres
£ 25.49

Gripper rods

Gripper rods are fixed round the edge of a room to hold a carpet in position.
They can be cut to make shorter lengths.
They can be joined to make longer lengths.

Pack of 6	Pack of 20
£ 8.99	£ 19.99
Each gripper rod is 1.5 metres long	

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