

Functional Skills Certificate FUNCTIONAL MATHEMATICS

Level 2

Data Book (Examination)

March 2019

Insert

Instructions

- This copy of the Data Book is for use in the examination. It should not be given to students in advance.

Advice

- This book will not be collected in for marking. Ensure that all working that you wish to have marked is written in the space provided in the Question Paper/Answer Book.

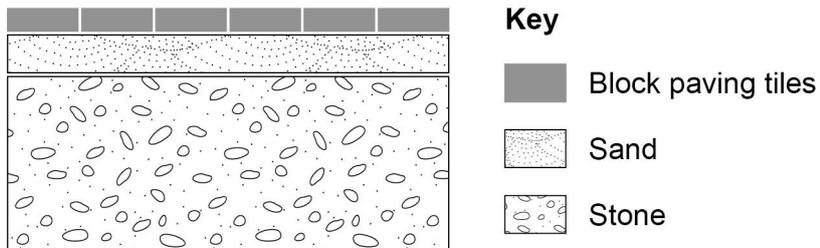
Block paving

Driveways are often covered with block paving.



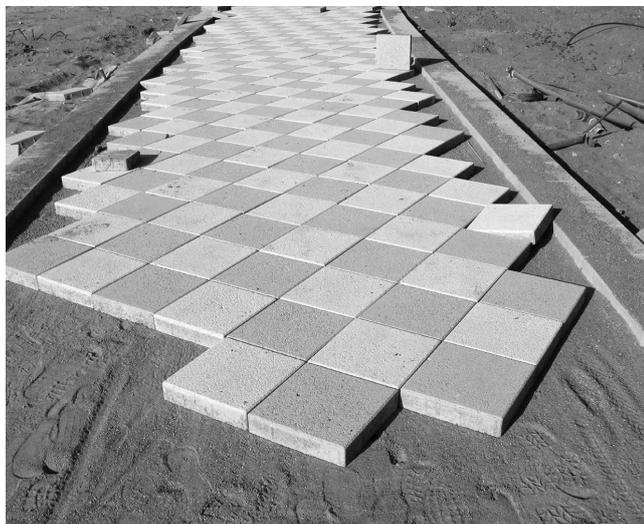
Block paving is built on a foundation.

The foundation usually has a layer of stone and a layer of sand.



To build block paving

- mark the area to be paved
- dig a hole for the foundation
- put a layer of stone into the hole
- put a layer of sand on top of the stone
- cover the sand with block paving tiles.



The foundation

Material has to be removed to make a hole for the foundation.

Use this formula to work out the amount of material that has to be removed.

$$V = \frac{Ad}{1000}$$

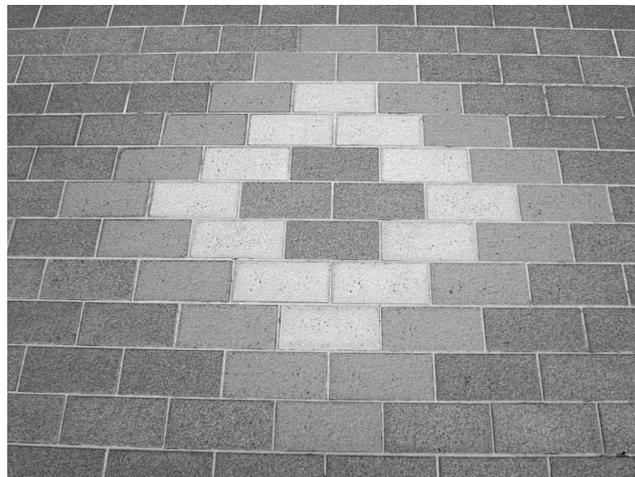
V is the amount of material in cubic metres

A is the area, in square metres, to be covered by block paving

d is the depth, in millimetres, of the foundation

Patterns in block paving

Different coloured tiles can be used to make patterns in block paving.



Turn over ►

Caravan

Caravan pitch

Some people have a holiday in a caravan.

They take their caravan to a caravan park.

It is possible to attach an awning to the side of a caravan.

An awning is like a tent.



Caravan



Caravan with awning

When you take a caravan to a caravan park you pay fees.

The fees are for

- renting the pitch for the caravan
- using the park's electricity supply
- having an awning on the side of the caravan.

The table shows the fees at Clover Meadow Caravan Park.

	Fee per night
Pitch fee	£27
Using electricity	£2
Awning	£3.50

Caravanners Society

The Caravanners Society owns Clover Meadow Caravan Park.

You pay £49 per caravan per year for membership of the Caravanners Society.

Members get a discount on the total fees per night.

Loan repayments

When you borrow money you usually pay back more than you borrow.

The extra amount that you pay back is called **interest**.

You can borrow money from a loan company to help buy a caravan.

This table shows the monthly repayments.

Amount of loan	Amount of repayment per month				
	For 12 months	For 24 months	For 36 months	For 48 months	For 60 months
£5000	£457	£248	£179	£144	£123
£10 000	£913	£497	£358	£288	£247
£15 000	£1370	£745	£537	£433	£370

Example

You borrow £15 000 from the loan company and pay back over 36 months.

$$\text{Monthly repayment} = £537$$

$$\begin{aligned} \text{Total amount repaid} &= 36 \times £537 \\ &= £19\,332 \end{aligned}$$

In total, you pay back £19 332

$$\begin{aligned} \text{Amount of interest paid} &= £19\,332 - £15\,000 \\ &= £4\,332 \end{aligned}$$

You pay £4332 **interest**.

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