Functional Skills Certificate
FUNCTIONAL MATHEMATICS

Level 1

Data Book (Examination)

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/answer book.

Data Sheet for Camping in France

Ferry

You can take your car on a ferry to France.
One route you can use is Portsmouth to Caen.

Here is part of the timetable and the costs for the ferry.
The costs are for a car and up to four passengers.

Portsmouth to Caen

Times		Cost			
Depart	**Arrive**	**Fri 4th June**	**Sat 5th June**	**Sun 6th June**	**Mon 7th June**
0815	1500	£235	£245	£225	£179
1445	2130	£209	£179	£179	£165
2245	0645	£245	£275	£209	£209

Caen to Portsmouth

Times		Cost			
Depart	**Arrive**	**Fri 11th June**	**Sat 12th June**	**Sun 13th June**	**Mon 14th June**
0830	1315	£165	£165	£209	£209
1630	2115	£199	£209	£245	£245
2300	0645	£179	£199	£219	£329

Campsites

In France you can book campsites which have tents for you to stay in.

This chart shows the distances

between Caen and some campsites in France

and

between the campsites.

All distances are in kilometres (km).

	Caen	La Croix Paris	La Breche	La Foret	Lez Eaux
Caen		240	280	392	120
La Croix Paris	240		400	552	432
La Breche	280	400		234	240
La Foret	392	552	234		290
Lez Eaux	120	432	240	290	

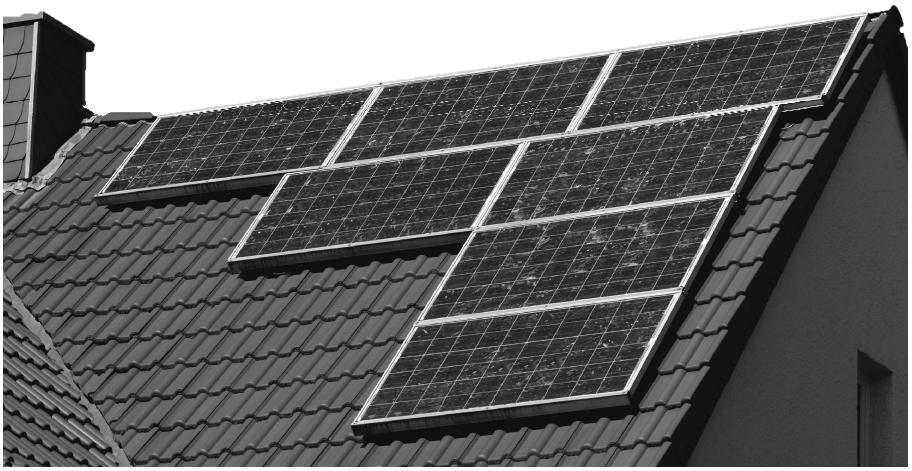
For example, the distance between La Croix Paris and La Foret is 552 km

This table shows the cost per tent **per night** in June at each campsite.
Each tent can sleep up to six people.

Campsite	**Cost**
La Croix Paris	£73
La Breche	£54
La Foret	£65
Lez Eaux	£52

Data Sheet for Solar panels

Here are 7 solar panels on a roof.



Solar panels use sunlight to make electricity.
They work when it is cloudy, but work better when it is sunny.

If you have solar panels on your roof,

you do **not** need to buy as much electricity

you are paid for all the electricity you make.

The **capacity** of a solar panel is measured in **kilowatts** (kW).

Estimating the amount of electricity made

Use these steps to estimate the number of units of electricity made in a month.

Step 1 Work out average number of cloudy hours per day ÷ 2

Step 2 Work out the answer to **Step 1** + average number of sunny hours per day

Step 3 Work out the answer to **Step 2** × the total capacity of the solar panels

Step 4 Work out the answer to **Step 3** × 11

Example

Total capacity = 3 kW

In June,

the average number of cloudy hours per day = 6
the average number of sunny hours per day = 10

Step 1 6 ÷ 2 = 3

Step 2 3 + 10 = 13

Step 3 13 × 3 = 39

Step 4 39 × 11 = 429

An estimate of the amount of electricity made in June is 429 units.

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