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# Functional Skills Certificate

## FUNCTIONAL MATHEMATICS

Level 1

Data Book (Examination)

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### 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	

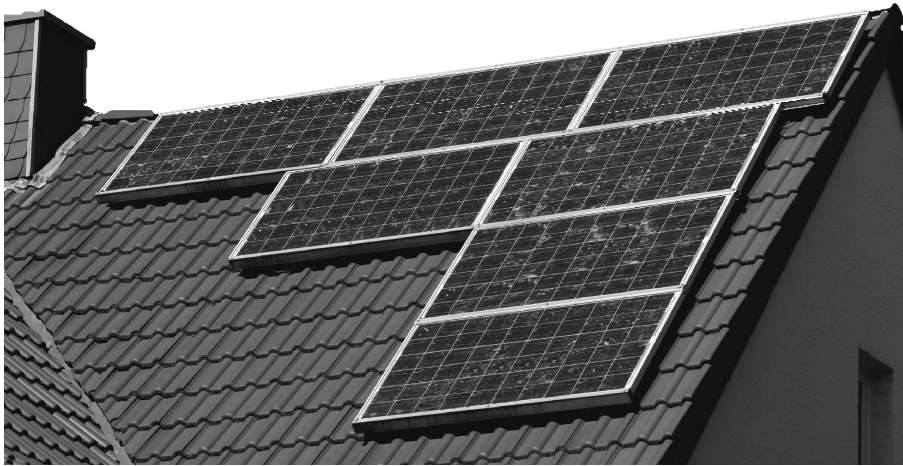
For example, the distance between La Croix Paris and La Foret is 552 km

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).

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**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  $\div 2$
- 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**  $\times$  the total capacity of the solar panels
- Step 4**            Work out    the answer to **Step 3**  $\times 11$

**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**             $6 \div 2 = 3$
- Step 2**             $3 + 10 = 13$
- Step 3**             $13 \times 3 = 39$
- Step 4**             $39 \times 11 = 429$

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

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