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Mathematics

Level 2

Challenge: Irish Blarney

Introduction

Name:

Date:

In this challenge, you have been asked to arrange a weekend break to Dublin for yourself and three of your friends. Preparation will include:

- finding a suitable hotel
- working out how much each person will have to pay
- converting spending money from pounds to euros
- working out how far they will have to travel.

Once you have completed the challenge, compare your answers with those on the 'Solution' sheets.

Equipment

It would be useful to have the following equipment handy:

- a calculator
- a pen or pencil and an eraser.

If you find it helpful, use the 'Your notes' area for any working-out you need to do.

Learning

In this challenge, you will be covering the areas detailed below.

Key Skills

- Choose how to obtain information to meet the purpose of your activity [N2.1.1]
- Obtain the relevant information [N2.1.2]
- Select appropriate methods to get the results you need [N2.1.3]
- Carry out calculations, clearly showing your methods and levels of accuracy [N2.2.1]
- Check methods to identify/correct errors, and make sure results make sense [N2.2.2]

Functional Skills

- Understand and use simple equations/ formulae involving one or two-step operations
- Carry out calculations with numbers of any size in practical contexts



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Glossary

divide

To work out how many times one number goes in to another.

multiply

The process of multiplying two or more numbers.

addition

The process of adding two or more numbers.

convert

To change something in to a different form.

pounds sterling

Currency used in the United Kingdom.

euros

Common currency of the European Union Nations.

scale

The difference in size of a drawing to that of the real thing.



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Task 1 of 4

Task 1

Your first task is to find a suitable hotel to stay in while you are in Dublin.

You need to find somewhere:

- in Dublin city
- that includes breakfast in the price
- that is available on 24th and 25th August
- within your price range of up to £50 per night, per person
- that has two or more stars.

Look at the table below and tick the box next to the hotel that meets your needs.

Name	Location	Breakfast included	Dates available	Cost per person per night	Stars
The Oaks	Dublin	Yes	23.06.06 24.06.06	£76	★★
Temple Court	Belfast	Yes	24.08.06 25.08.06	£40	★
The Manor	Waterford	No	24.09.06 25.09.06	£99	★★
Lynch House	Dublin	No	24.08.06 25.08.06	£49	★
Abbey Park	Dublin	Yes	24.09.06 25.09.06	£37	★
The Castle	Cork	Yes	26.09.06 27.09.06	£83	★★★★
The Herrington	Dublin	Yes	24.08.06 25.08.06	£40	★★
The Celtic Cross	Dublin	Yes	24.08.06 25.08.06	£110	★★★

Your notes



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Task 2 of 4

Task 2

You now need to work out how much each person will have to pay if you all share the cost of the ferry and petrol.

You have found out that:

- the cost of the hotel per person per night is £40
- the total cost of petrol is £44.40
- the total cost of the return trip from Holyhead to Dublin is £135.

Write your answer in to the blank box. Remember you are staying in Dublin for two nights.



Each person will have to pay:

£

Your notes



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Task 3 of 4





Task 3

You need to change your spending money from pounds sterling to euros. Your friends have asked you to find out how much they will all get.

This is how much each person has to spend:

- Nadia - £120
- Shelby - £95
- Ardell - £195
- You - £210

Use the chart to work out the conversion for each person then draw a line from each name to the appropriate amount in euros.

	 US Dollars	 UK Pounds	 Euros	 Japanese Yen
1 US Dollar =	1.000	0.514	0.751	116.760
1 Euro =	1.331	0.685	1.000	155.448
1 UK Pound =	1.941	1.000	1.458	226.723

Nadia

€284.31

Shelby

€306.18

Ardell

€174.96

You

€138.51

Your notes



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Task 4 of 4

Task 4

You want to find out how far it is to Dublin via ferry. On a map, you work out that the distance measures 6cm.

If the scale on the map is 1cm : 20km, what is the actual distance you have to travel?

Draw a line from the map to the correct distance in kilometres.



100km

120km

200km

600km

Your notes