

# Mathematics

Level 2



**Functional Skills**  
Practice Assessment 1

**Holiday in Italy**



2) a) What is the latest time you can begin the journey from home?

b) If you leave home at 7.30 a.m, what time is spent in each part of the journey?  
Give your answers as mixed fractions in hours.

Home to airport security gate	_____ hrs
Waiting	_____ hrs
Flight	_____ hrs
Airport to hotel	_____ hrs
<b>Total time</b>	<b>_____ hrs</b>

c) What is the time spent getting from the airport to the hotel as a fraction of the time spent on the whole journey?

d) What is this fraction as a percentage and as a decimal?

\_\_\_\_\_ % \_\_\_\_\_

e) Show the ratio of time spent in each part of the journey as whole numbers.

Home to airport security gate : Waiting : Flight : Airport to hotel

\_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_

- 3) a) Your case and contents weigh 8.7 kg. You want to pack a maximum 9.8 kg so that you are sure you are below the weight limit of hold luggage. If you pack a book weighing 425 g and an extra pair of shoes weighing 395 g, would you still be under the weight limit?

- b) What is 10 kg to the nearest approximate imperial weight?

\_\_\_\_\_ lbs

4) **Distance - Kilometres**

1 mile = 1.609 kilometres

Florence								
269	Genoa							
71	194	Lucca						
323	155	293	Milan					
535	759	566	859	Naples				
91	189	18	291	569	Pisa			
301	525	333	624	230	334	Rome		
69	295	90	395	464	155	232	Siena	
264	388	302	283	800	322	566	336	Venice

**Information**

4-day car hire: £151.36  
1 euro = £0.86

Fuel consumption average:  
24.62 km per litre

Fuel: 1.125 euros per litre (diesel)

**Travel Itinerary**

24 June Pisa Airport – Hotel  
25 June Pisa – Lucca  
Lucca – Florence  
26 June Florence – Siena  
27 June Siena – Pisa  
28 June Pisa Hotel – Airport

- a) You have pre-booked a hire car that will need to be paid for, in euros, at Pisa airport. How many euros is that?
- b) You are sharing all the travel costs. How much will each of you have to contribute, in euros, to the cost of the car and fuel?

5) Use the table to answer the following questions.

Northern Italy Climate												
	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec
Rainfall (mm)	61	59	71	85	98	81	68	82	81	116	106	76
Temp °C (min)	2	-2	3	8	12	17	18	17	14	9	4	0
Temp °C (max)	4	8	13	19	22	26	29	28	25	18	11	5

- a) You have been told the temperature range for the month you are in Italy is 14 °C. Is this correct?
- b) What is the temperature range for the whole year, in °C?
- c) What is the mean average rainfall level (mm) for a year?
- d) What is the modal rainfall level for a year?

- e) Draw a graph to represent the information from the table, showing the average minimum and average maximum temperatures, month by month, in Italy for one year.

## Holiday in Italy - Data Sheet

Use the information given below to answer the questions. Make sure that you show all stages of working out for each question.

### Flight Information/Regulations

**Outgoing flight:** 24 June at 12.15 (BST); arriving at 15.30 (CEST)

**Return flight:** 28 June at 15.20 (CEST); arriving at 16.35 (BST)

BST - British Summer Time  
CEST - Central European Summer Time

The security gate closes 30 minutes before take off.

You need to allow  $2\frac{1}{2}$  hours to get from home to the airport and a further 1 hour to park the cars and get to the security gate.

When you arrive in Italy, it will then take 1 hour to pick up your hire car and drive the 12 km to your hotel.

Flight - each way	£7 per person	Car parking charge for 4 nights	£28.60 per vehicle
Airport taxes – outward journey	£20.63 per person		
Airport taxes – return journey	£17.92 per person		
Credit card handling fee	£4.60 per total booking		
Check in	£10 per item of hold luggage, per person, max 15 kg per bag		
Priority boarding	£3 per person per flight		

You are allowed to take 10 kg of hand luggage each without charge. Maximum dimensions 55 cm × 40 cm × 20 cm.