

# Mathematics Workbook

Valid from February 2011 to August 2011

Functional Skills Qualification in Mathematics at Entry 2

Learner name

Learner signature and date

Work through the whole book.

- Answer every question.
- You can write or draw to show your answers in the workbook.
- You can use a calculator.

Your tutor may read the questions to you.

Ask your tutor if you do not understand any words.

**You have up to 1 hour to complete the workbook.**

Your tutor may give you objects to help you with the questions.

You will need:

- Pencil
- Ruler
- Rubber

Turn over ►

## A day out

### Section 1: Planning a day out

You are planning a day out for yourself and three friends.

You want to choose a day in July.

You and your three friends all work every day from Monday to Friday.

Here is a Calendar for July 2011:

# JULY 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

**Which days could you choose for your day out?**

On the calendar mark all of the days you can choose.

(2)

You decide to go to a theme park.  
You need to decide how to get there.

Here are two ways to travel:

<b>Offers on day trips to theme park - option 1</b>
<b>Coach travel</b> Manchester to theme park  £25 return

<b>Offers on day trips to theme park - option 2</b>
<b>Train</b> Manchester to Stoke-on-Trent £18 return  <b>Bus</b> Stoke-on-Trent to theme park £5 return

**Work out the total cost of travelling by train and bus.**

**Is this total cost cheaper than coach travel?**

Show your working in the box below.

(2)

The first train leaves at 8 o'clock in the morning from Manchester.

Trains go every half hour.

The latest time you want to leave Manchester is 10 o'clock in the morning.

**How many trains are there to choose from?**

Write your answer in the box below.

(1)

**Write the times of three of the trains you and your friends could take.**

Show your answer in the box below.

(1)

You buy a drink to take with you on your day out.  
The drink costs 87p.  
You pay with a £1 coin.

**How much change should you be given?**

Show your working in the box below.

(1)

**Write down a calculation you could do to check your change.**

Show your working in the box below.

(1)

**Which coins should you be given as correct change?**

Tick or circle the coins you should be given as correct change.



(1)

## 2: At the theme park

You are at the theme park.

You see a notice for the entrance charges to the theme park.

You all have vouchers for half price entry to the theme park.

The table shows the entrance charges.

	Entrance Charge
Adult (over 11)	£38
Child (4-11)	£28
Senior (over 65)	£18
Child (under 4)	free

Using the half price voucher, how much do you have to pay for your own entrance to the theme park?

Show your working in the box below.

(2)

You want to work out the total cost for you and your 3 friends to get into the theme park using the vouchers.

**Write down a calculation you can do to work out the total cost for you and your three friends to get into the theme park.**

Show your working in the box below.

(1)

A thermometer at the entrance to the theme park shows the temperature is  $31^{\circ}\text{C}$ .

Here is a thermometer:



**Where is  $31^{\circ}\text{C}$  on the thermometer scale?**

Mark the temperature  $31^{\circ}\text{C}$  on the thermometer scale.

(1)

The table shows the average waiting times for the rides.

Name of Ride	Average Waiting Time in Minutes
Void	45
Boomerang	25
Haunted Mansion	25
Log Flume	30
Kickback	40
River Rapids	30
Runaway Train	25

**Which of the rides has the longest average waiting time?**

Write your answer in the box below.

(1)

**How many rides have an average waiting time of 25 minutes?**

Write your answer in the box below.

(1)

You and **one** of your friends buy a bottle of water to share equally between you.

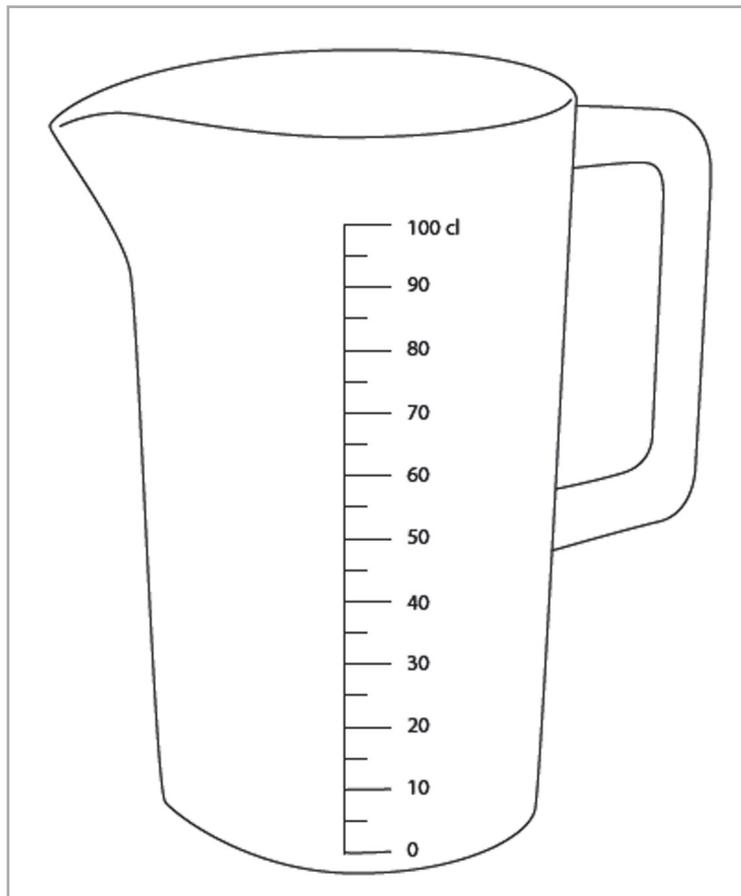
The bottle holds 100cl.

**How much water will each of you have?**

Show your working in the box below.

(1)

**Show how much water you will have in a measuring jug.**



**On the picture mark the amount of water each of you will have.**

(1)

You see a 3-D film at the theme park.  
You wear 3-D glasses to watch the film.  
The glasses are different shapes.



**Two of the shapes have the same number of corners. What are the names of these two shapes?**

Write your answers in the box below.

(1)