

Mathematics Workbook

Valid from January 2013 to August 2013

Functional Skills Qualification in Mathematics at Entry 3

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 30 minutes to complete the workbook.

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

You will need:

- Pencil
- Ruler
- Rubber

Turn over ►

1 Planning a night out

Kerry wants to go for a night out.

Kerry wants to go bowling or to see a film at the cinema.

These are the prices.

bowling	
bowling ticket	£12.50
food	£5.50
drink	£1.90
bus fare	£3.00

cinema	
film ticket	£10.00
food	£6.95
drink	£3.25
bus fare	£3.00

Kerry works out the total cost for a ticket, food, drink and bus fare.

Kerry says

- the total cost to go bowling is less than £25
- it is also less than £25 to go to the cinema.

Is Kerry correct?

Show why you think this.

(4)

Write your working and your answer on the next page.

Write your working and your answer in the box below.

2 Going to the cinema

Kerry decides to go to the cinema to see a film.

Kerry gets on the bus at the park.

Here are the bus times.

park	7:20 pm	7:40 pm	8:00 pm	8:20 pm
cinema	7:40 pm	8:00 pm	8:20 pm	8:40 pm

Kerry wants to get a bus to arrive at the cinema before 8:15 pm.

What is the latest time Kerry can get the bus at the park?

(1)

Write your answer in the box below.

The film starts at 8:25 pm.
The film is 2 hours and 10 minutes long.

Kerry knows that the last bus goes at 10:45 pm.

Can Kerry watch the whole film and catch the last bus?

(3)

Write your working and your answer in the box below

3 At the cinema

Kerry meets Pat at the cinema.
They want to sit next to each other.

The plan below shows some seats in the big screen.

The seats are in 3 blocks.
The seats are in rows.
Every seat has a number.

big screen

block 1	12	11	10	9	8	7	6	5	4	3	2	1	Row A
	12	11	10	9	8	7	6	5	4	3	2	1	Row B
	12	11	10	9	8	7	6	5	4	3	2	1	Row C
	12	11	10	9	8	7	6	5	4	3	2	1	Row D
block 2	12	11	10	9	8	7	6	5	4	3	2	1	Row E
	12	11	10	9	8	7	6	5	4	3	2	1	Row F
	12	11	10	9	8	7	6	5	4	3	2	1	Row G
	12	11	10	9	8	7	6	5	4	3	2	1	Row H
block 3	12	11	10	9	8	7	6	5	4	3	2	1	Row J
	12	11	10	9	8	7	6	5	4	3	2	1	Row K
	12	11	10	9	8	7	6	5	4	3	2	1	Row L
	12	11	10	9	8	7	6	5	4	3	2	1	Row M

Kerry and Pat can choose seats with black numbers.
The shaded seats are already booked.

Kerry and Pat want to sit in block 2.
They want two seats next to each other near the middle of a row.

Which two seats could they choose?

(2)

Write your answer in the box below.

seat number _____ in row _____ and

seat number _____ in row _____

In the small screen the number of the seat at the end of each row follows a pattern.

The first four numbers in the pattern are

8 16 24 32

What is the next number in the pattern?

(2)

Write your working and your answer in the box below.

There are 80 seats in the small screen.

One quarter of these seats are booked.

What is one quarter of 80?

(1)

Write your working and your answer in the box below.

Show a calculation to check your answer.

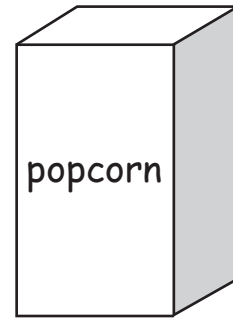
(1)

Kerry buys a box of popcorn.

The shape of the box is a cuboid.

The top and base of the box are square.

What is the name of the shape of the other faces?



(1)

Write your answer in the box below.

Jon works at the cinema.

He has to put as many boxes as possible on a shelf.

The width of each box is 10 cm.

The length of the shelf is 74 cm.

How many boxes can Jon put on the shelf?

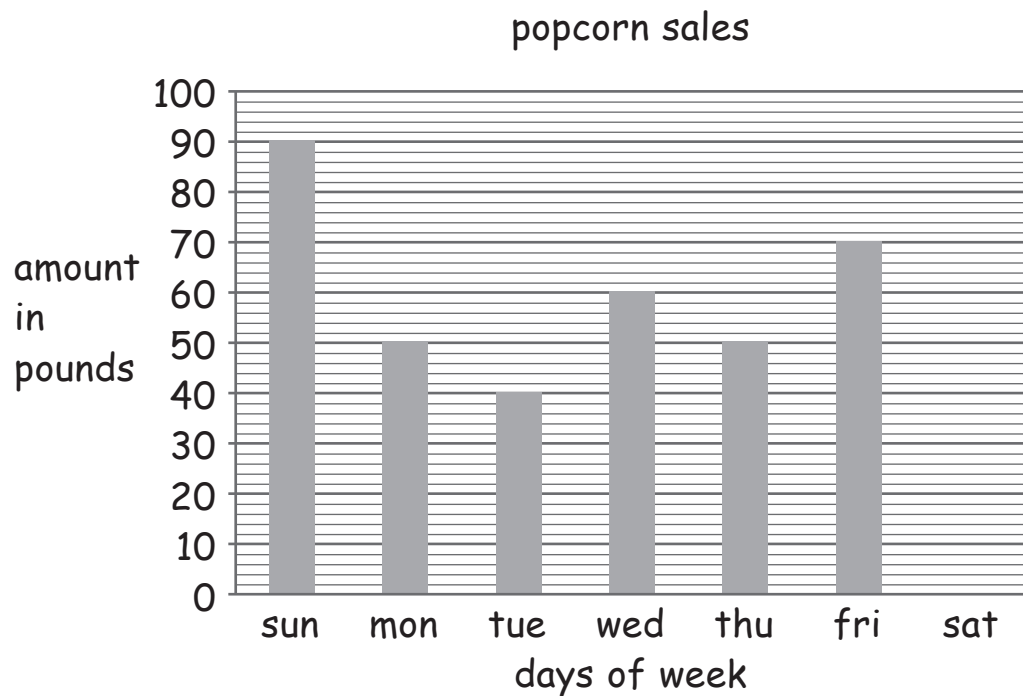
(2)

Write your working and your answer in the box below.

Jon keeps a record of popcorn sales each day for one week.

He rounds the amounts to the nearest ten pounds.

Jon displays the information in a bar chart.



On Saturday the popcorn sales are £83

What is £83 rounded to the nearest £10?

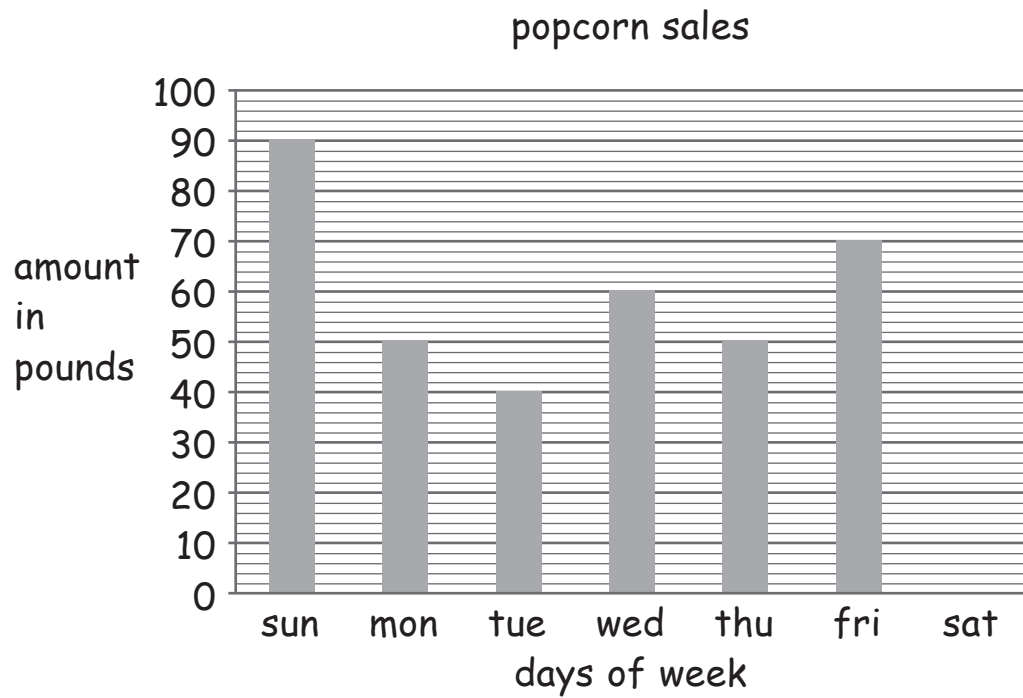
(1)

Write your answer in the box below.

Complete the bar chart for Jon.

(1)

Show the rounded amount for Saturday on the bar chart.



Which day has the least amount of popcorn sales?

(1)

Write your answer in the box below.