

Mathematics Workbook

Valid from February 2011 to August 2011

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 ►

The charity fair

1 Planning a charity fair

You are planning a charity fair.

People buy tickets to go to the charity fair. Last year 565 tickets were sold.

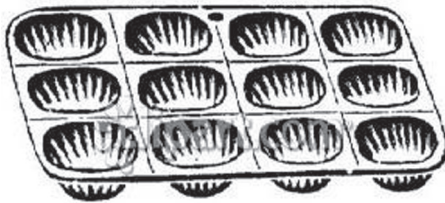
How many tickets were sold, to the nearest hundred?

Show your working in the box below.

(1)

There will be a cafe at the fair.
You are making buns to sell at the cafe.

Here is your bun tray:



You want to make 30 buns all in one go.

How many bun trays do you need for 30 buns?

Show your working in the box below.

(1)

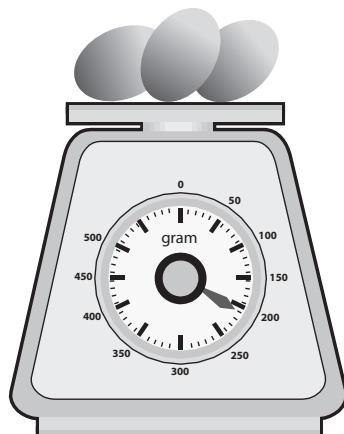
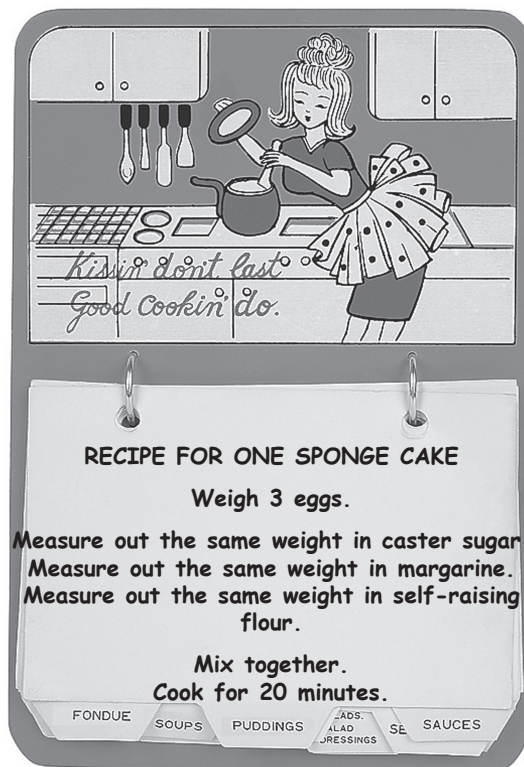
How many empty spaces will there be on the trays?

Show your working in the box below.

(1)

You want to make some cakes to sell at the charity fair.

Here is a recipe for one sponge cake.



How many grams do 3 eggs weigh?

Show your answer in the box below.

(1)

You will need the same weight of margarine to make 1 sponge cake.

You want to make 4 sponge cakes.

How many grams of margarine do you need to make 4 sponge cakes?

Show your working in the box below.

(1)

You want to buy as little margarine as possible.

You can buy packs of margarine in these sizes:

1kg	500g	250g
		
£1.20	70p	45p

What size pack of margarine should you buy?

How much do you pay for the margarine?

Show your working in the box below.

(2)

Jeremy is running the cafe.

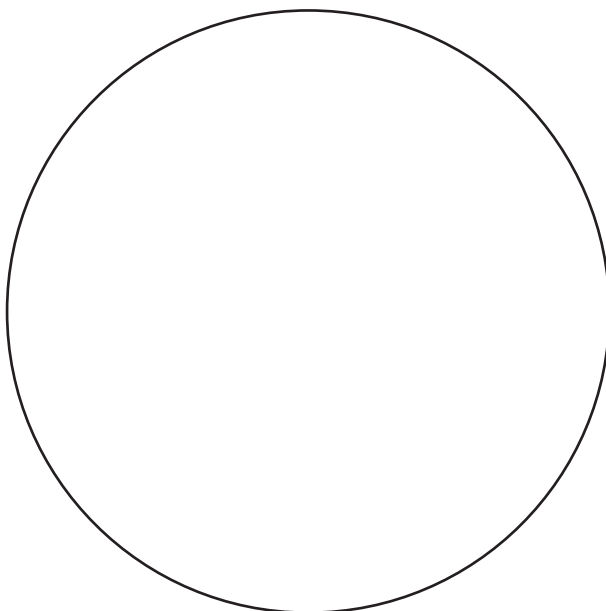
He will put tables and chairs inside the cafe and outside the cafe.

Jeremy needs to say which shape of table he needs.

Table inside the cafe



Table outside the cafe

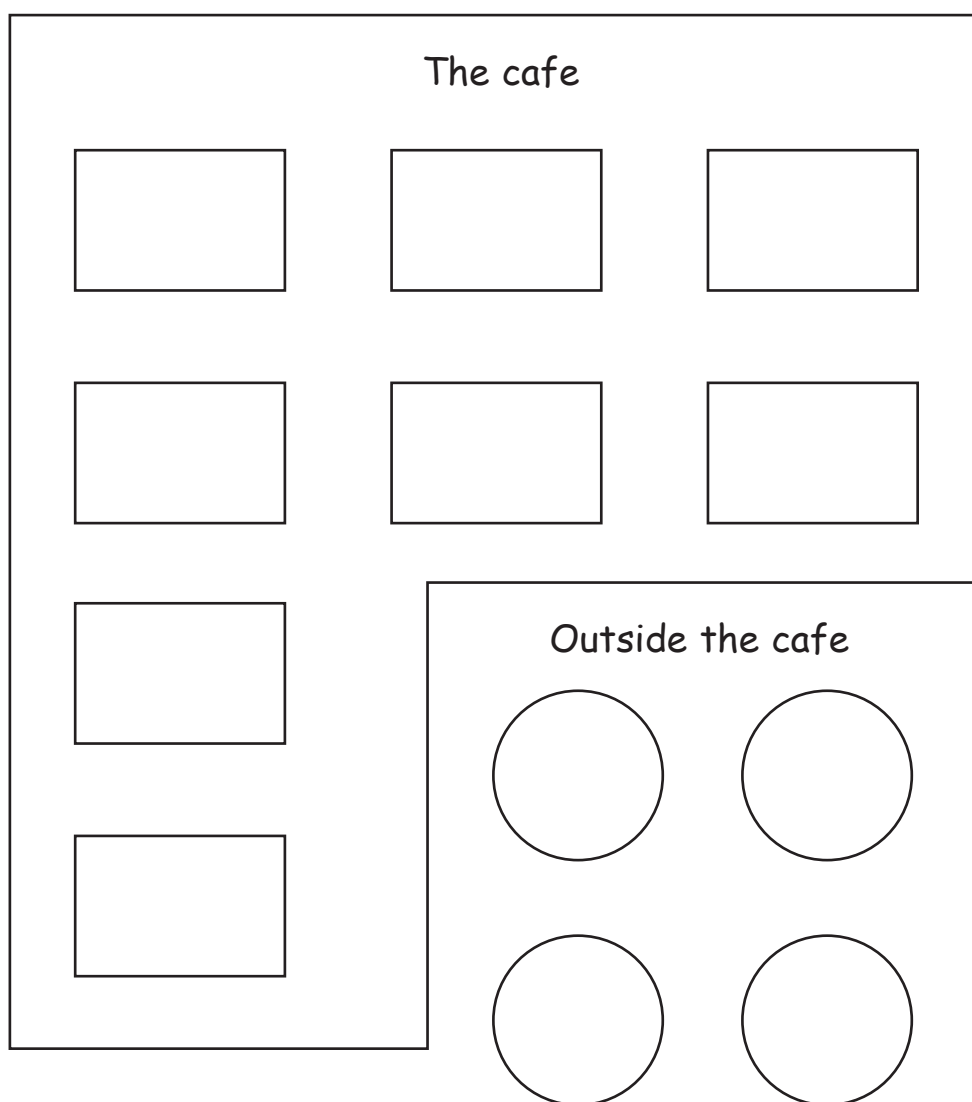


What are the names of the shapes of the tables?

Write the names next to the tables.

(1)

Jeremy needs to say how many chairs he needs.
He will put 5 chairs at each of the tables **outside** the cafe.

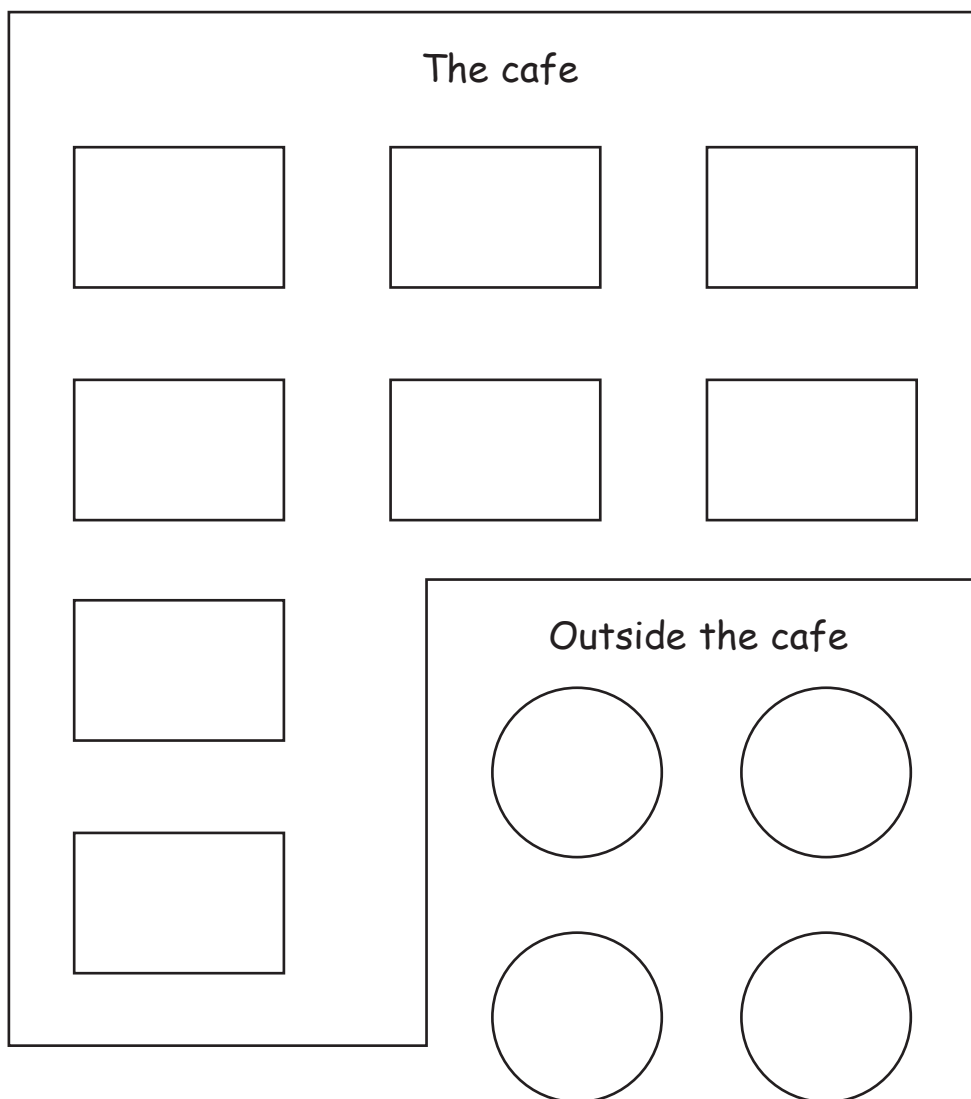


How many chairs does Jeremy need for all the tables outside the cafe?

Show your working in the box below.

(1)

At each of the tables **inside** the cafe,
Jeremy puts 1 chair on each short side and 2 chairs on each long side.



How many chairs does Jeremy need for all the tables inside the cafe?

Show your working in the box below.

(3)

2 At the charity fair

You are at the fair.

You can buy muffins from the cafe.

You can buy 1 muffin at a time.

You can also buy bags of 4 muffins.

These are the prices:



One muffin
30p



Bag of 4 muffins
£1.00

Is it cheaper to buy a bag of 4 muffins or to buy 4 muffins one at a time?
How much cheaper is it?

Show your working in the box below.

(2)

There is a tombola at the fair.
There are 50 tickets in a box.
You pick out a ticket from the box.

The numbers on the tickets go from 1 to 50.

If the number on your ticket ends in 5 or 0, you win a prize.

For example, 35 and 40 are winning tickets.

What are the winning tickets with numbers less than 30?

Show your working in the box below.

(2)

Harry is running the tombola.
Harry has 1 prize for every winning ticket.

How many prizes does Harry have?

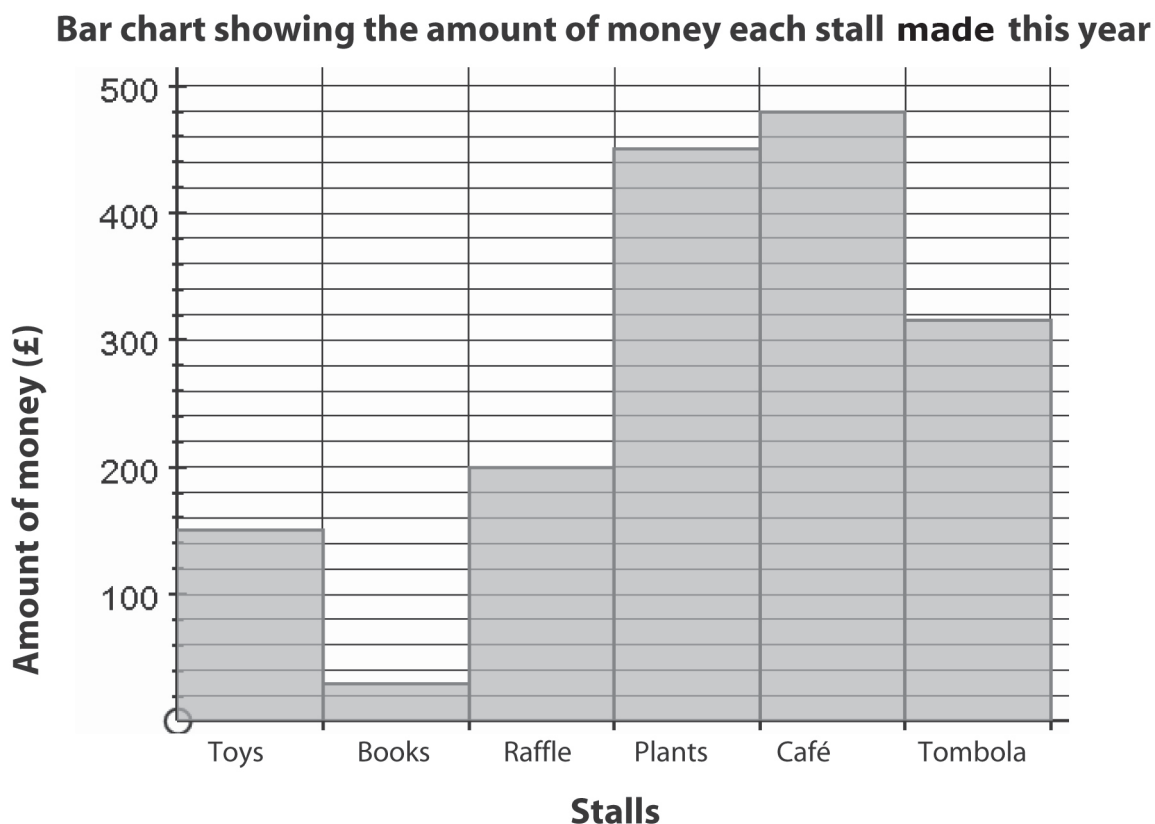
Show your working in the box below.



(1)

3 The money made from the fair

The bar chart shows the amount of money made at the different stalls.



Which stall made the least amount of money?

Show your working in the box below.

(1)

The cafe made £420 at last year's fair.
Look at the bar chart again.

How much more money did the cafe make at this year's fair?

Show your working in the box below.

(2)