


Candidate name:	
Functional skills Level 2	Mock 1
Mathematics Section B-Calculator Time: 1 hour	
You must have: Pen, calculator, pencil, eraser, ruler, protractor, compass.	
My signature confirms that I will not discuss the content of the test with anyone Signature:	Total marks

Instruction

- Use **black** ink or ball-point pen
- Answer **all** questions
- Write your final answer in the box provided
- Answer the questions in the space provided- *there may be more than you need*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answer at each stage.
- The diagrams are **not** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button take the value to be 3.14
- **Calculators may be used**

Information

- The total for this section is 30
- The total for the paper is 40
- The marks for each question are shown in brackets
-use this as a guide to how much time to spend on the question
- This sign shows where marks will be awarded for showing your checks

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end

Turn over ➤

Functional Skills Maths: Mock 1 Assessment

FS Maths Assessment at Level 2

Why are you doing this assessment?

The purpose of this assessment is to find out how we can help you achieve success in your FS Maths. We will use this assessment to identify areas of strength and areas for development with your Maths skills.

On completion of this assessment your tutor will set you individual targets to support the development of your skills.

You will be given **75 minutes** to complete this assessment (15 minutes for Non-calculator paper / 60 minutes for Calculator paper).

10 marks are available on the non-calculator paper and 30 marks are available on the calculator paper.

What you need to do

- Complete the assessment in handwritten form (you may use a calculator on the **designated calculator paper only**)
- You are allowed **75 minutes** to complete the assessment.
- You must clearly show all your working out and calculation methods.
- If you have already confirmed with us exam access arrangements, you will have these in place for these assessments.

1 Last year Zack had two jobs.

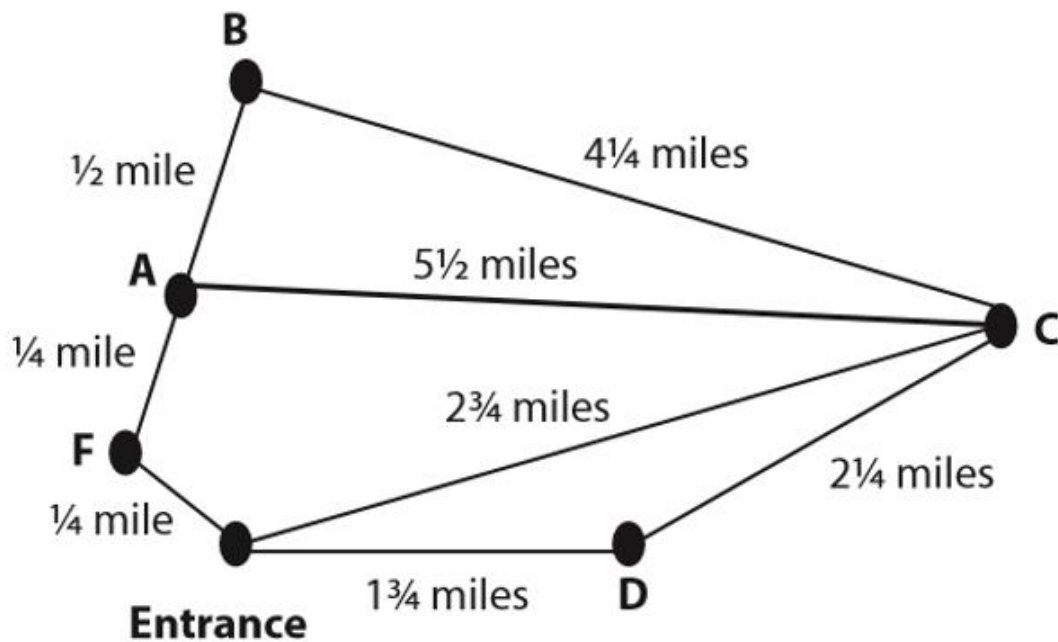
Zack worked

- In an office for 12 months and earned £2600 per month
- At a gym for 39 weekends and earned £80 per weekend

What fraction of his total income last year came from his work at the gym?

(4)

2 Olga has this sketch of the paths in the park.



She wants a cycle route that

- Starts and ends at the entrance
- Goes through point C at least once
- Has a total length of **between 15 and 20 kilometres.**

1km = 0.6 miles

Plan a suitable route.

Work out the total distance of the route.

(5)

Continue on the next page

Route

Total distance

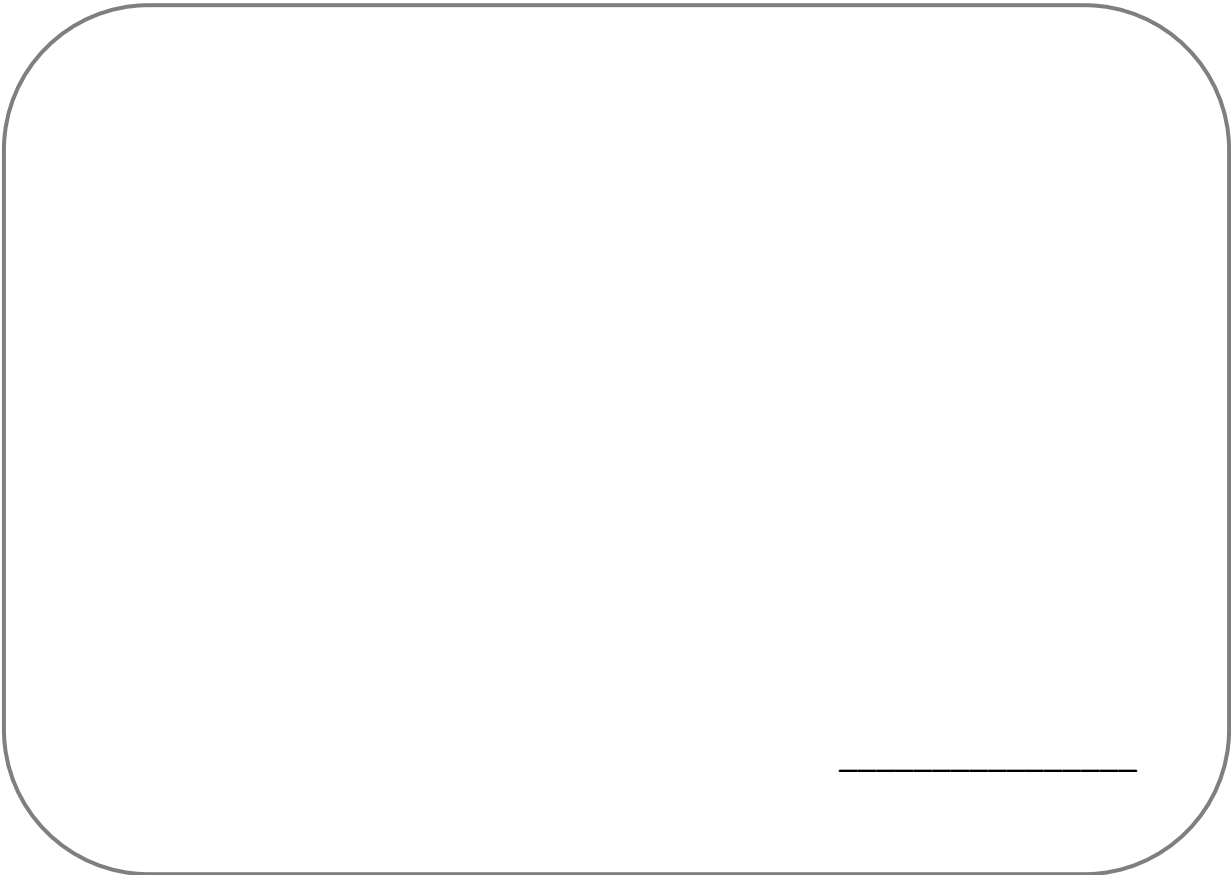
3 Megan is the manager of a computer shop.

She organizes a sale with 18% off all tablets.

Megan changes the prices of one tablet from £389 to £330.98

(a) Has Megan changed the price correctly?

(3)



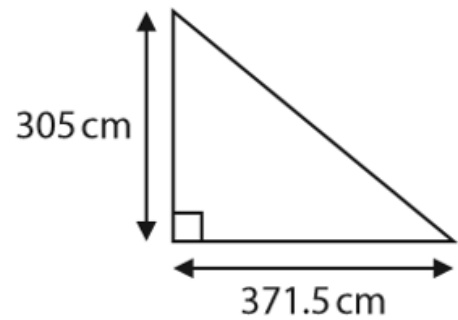
(b) Use estimation to show a check of your answer.

(1)



4 George will cover part of a floor with tiles.

The part of the floor is in the shape of the triangle as shown.



George buys tiles in packs.

Each pack covers 1 m^2 and costs £39.95

The tiles can be cut and joined

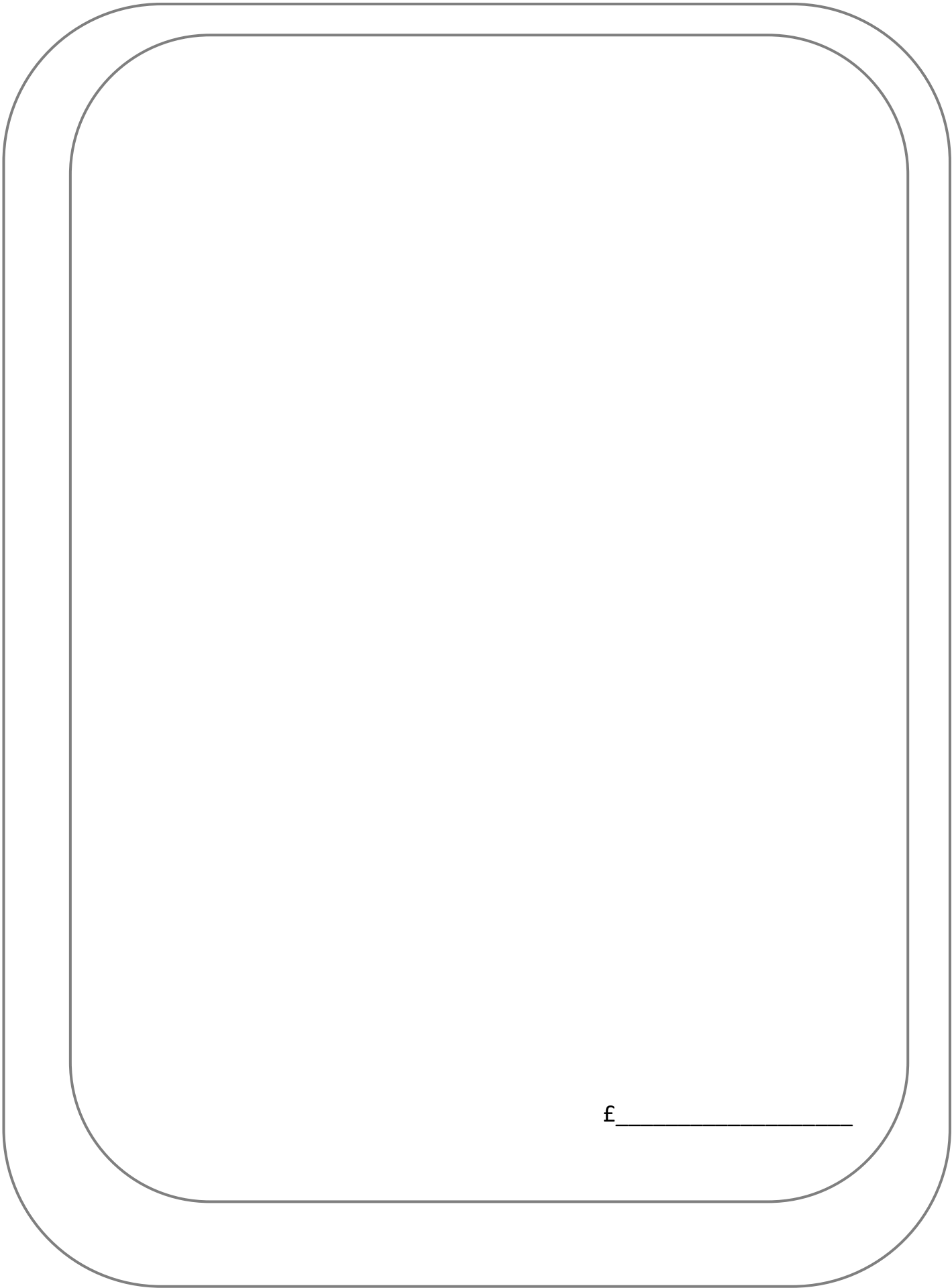
George gets $\frac{1}{3}$ off the cost of the packs of tiles.

Work out the lowest cost of the tiles for George.

(5)

A large empty rounded rectangular box provided for the student to write their solution.

Continue on the next page if needed.



£ _____

5 Gabi wants to buy a flat.

The cost of the flat is £175 000

The bank uses this formula to work out the mortgage Gabi can get.

$$M = 4.625A$$

M=mortgage (£)

A=annual income (£)

Gabi has an annual income of £34 000

She will have to pay a deposit for the flat.

The deposit is the difference between the cost of the flat and the mortgage.

(a) Work out the deposit Gabi will have to pay. (3)

£ _____

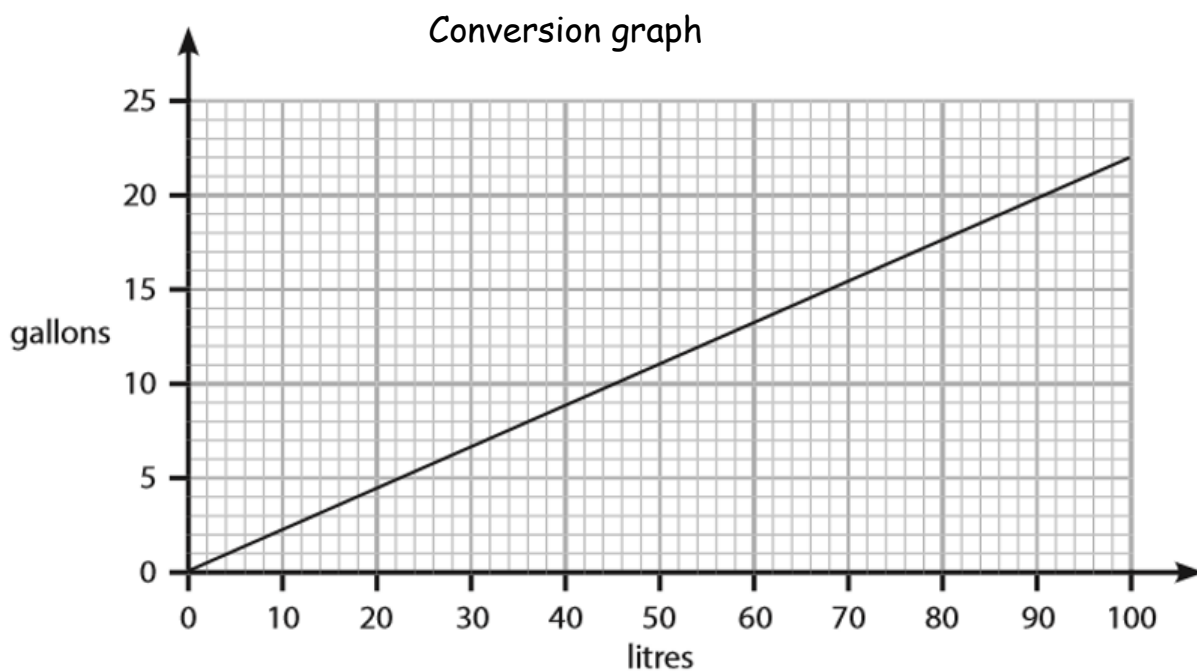
(b) Gabi invests £4000 for 3 years.

The investment earns 2% compound interest per annum.

Work out the value of the investment at the end of 3 years. (3)

£ _____

6 This graph can be used to convert between gallons and litres.



(a) Convert 60 litres to gallons.

(1)

_____ gallons

One day

- Anaya used 44 litres of fuel,
- Meera used 8 gallons of fuel

Anaya used more fuel than Meera.

(b) Use the graph to work out how much more.

Remember to give units with your answer.

(2)

7 David reads this advert on his county council website.

70% of the area of woodland in the country is native woodland.

This means there are 350km² of native woodland in the country.

Work out the area of woodland in the country that is NOT native woodland.

(3)

End of assessment