**Level 1 Certificate in
Essential Skills Application of Number**

**Sample Paper 1
Question Paper**

**Length of assessment – 1 hour 30 minutes
Total marks available – 45 marks**

Candidate Name (First, Middle, Last)

Candidate enrolment number

DOB (DDMMYYYY)

Candidate signature

Assessment date (DDMMYYYY)

Centre number

You should have the following for this assessment
- A pen with black or blue ink.
- A pencil and eraser for graph work.
- A 30cm ruler.
- You may use a calculator.
- You may use a protractor.
- You may use a dictionary.

General instructions
- There are **45** marks available in this assessment.
- There are **3** tasks to complete. You must answer all of the questions.
- Each task is worth 15 marks.
- You should spend an equal amount of time on each task.
- Read through each task carefully.
- Show your working out. You may get marks for it.
- Check your calculations.
- Remember to put units on your answers.
- Write all working out and answers in this booklet.
- There are additional pages at the back of this booklet if you run out of space.

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Task 1   Supermarket

There are **15** marks available for this task.
You should check all your work as you go along.

Introduction
The following sandwiches are available to buy in a supermarket.

Cheese £2.15 each						
	Best before 4/08	Best before 6/08	Best before 6/08			

Chicken £3.00 each						
	Best before 5/08	Best before 3/08	Best before 5/08	Best before 6/08		

Tuna £2.20 each						
	Best before 7/08	Best before 3/08	Best before 3/08	Best before 5/08	Best before 3/08	Best before 3/08

Egg £2.30 each						
	Best before 7/08	Best before 3/08	Best before 6/08	Best before 3/08	Best before 5/08	

Turkey £2.75 each						
	Best before 3/08	Best before 5/08	Best before 3/08			

1A

The picture shows a sales receipt for a shopper at the supermarket.

```
         VALUE SUPERMARKET
              DUNGANNON
          12 SCOTCH STREET

       VAT REG NO. 880 5189 04

                02/08/2016      13:37



Egg sandwich x 2 @ £2.30          £4.60
Turkey sandwich x 1 @ £2.75       £2.75
Cheese sandwich x 3 @ £2.15       £6.45
Tuna sandwich x 4 @ £3.00        £12.00


               TOTAL INC VAT    £25.80
                       CASH     £40.00
                     CHANGE     £14.20
```

Did the shopper buy these sandwiches in the morning or the afternoon?

How do you know? Give one reason.

The shopper bought the sandwiches in the morning ☐ afternoon ☐	
(Tick one box)	
Reason	

(1 mark)

1B

The shopper thinks there is a mistake on the receipt. He thinks the price for one of the types of sandwich is wrong.

Check the receipt.

Find the mistake and work out the correct total and change for the customer.

Show your working

Mistake

Correct total £ _____

Correct change £ _____

(3 marks)

1C

The supermarket manager asks a shop assistant to reduce the price of the sandwiches that have reached the best before date.

If the date today is 3 August, how many sandwiches must have their prices reduced?

_____ **sandwiches**

(1 mark)

1D

The manager tells the shop assistant to reduce the prices of the Tuna sandwiches that have reached the best before date by 25%.

What will the **new** reduced price of a Tuna sandwich be?

Show your working

New reduced price £_____

(3 marks)

1E

Choose one of your calculations in **1D** to check.

Check it by a **different** method to the one you used originally.
You can use approximation, a reverse calculation or any other suitable different method.

Write your check here

(1 mark)

1F

Work out the range of the original prices of the sandwiches.
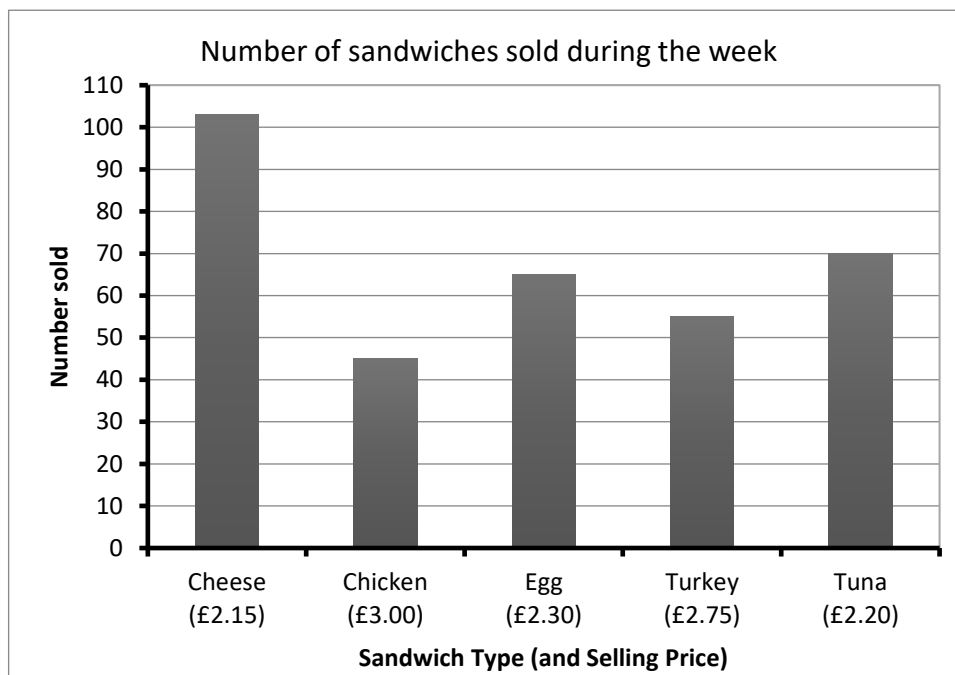
Show your working

Range _____

(2 marks)

1G

The chart below shows the number of each type of sandwich the supermarket sold during a one-week period and the price of the sandwiches.

Number of sandwiches sold during the week

Number sold: Cheese (£2.15) ≈ 103, Chicken (£3.00) ≈ 45, Egg (£2.30) ≈ 65, Turkey (£2.75) ≈ 55, Tuna (£2.20) ≈ 70

Sandwich Type (and Selling Price)

How many Tuna sandwiches did the supermarket sell?

_____ **Tuna sandwiches**

(1 mark)

1H

Does the chart show a link between the prices of the sandwiches and the number of sandwiches sold?

Explain your answer and include **two** examples from the chart.

Does the chart show a link?	Yes		No	
(Tick one box)				
Explanation and examples				

(2 marks)

1I

The night staff have to clean the fridge overnight. They must not put sandwiches back into the fridge until the temperature is 5 degrees or less.

This picture shows the temperature in the fridge after they have cleaned it.

By how many more degrees does the temperature need to go down so that it is at 5 degrees?

Space for working
Temperature needs to go down _____ degrees

(1 mark)

Task 2   Noticeboards
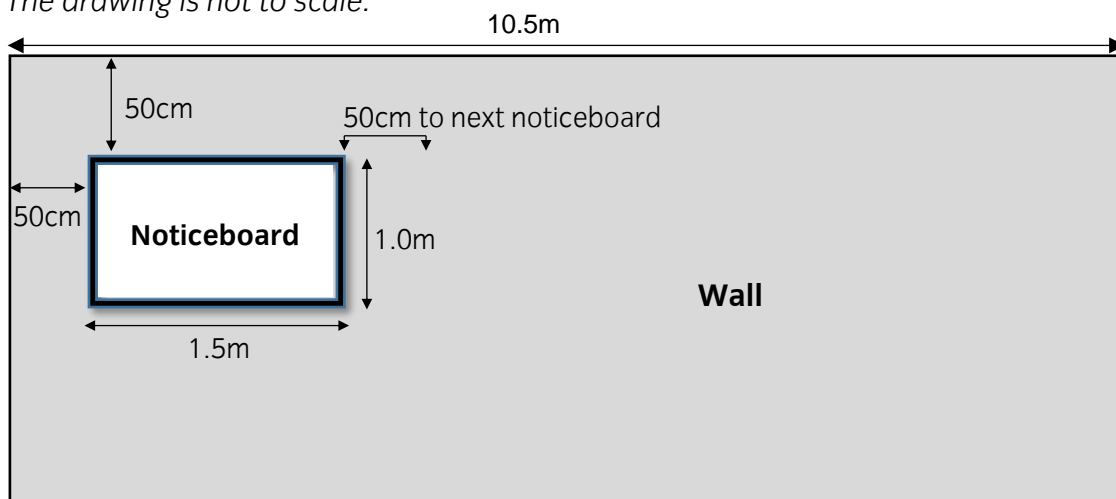
There are **15** marks available for this task.
You should check your work as you go along.

Introduction
The manager of a sports centre wants to put up some noticeboards.

He makes the following rough drawing to show how to hang the noticeboards and the space needed between them.

The drawing is not to scale.

2A
Show how many noticeboards will fit along the length of a wall.
You only need to show **one row.** Label your diagram.

Use the graph paper below.

Space for working

Number of noticeboards that fit along the wall _____

(6 marks)

2B

The company that supplies the noticeboards gives the manager the following information

Cost of the noticeboards is £60 per board, plus a fixed £50 delivery charge

The manager decides to order 12 boards for the sports centre.

Work out how much he will have to pay in total to the company, including delivery.
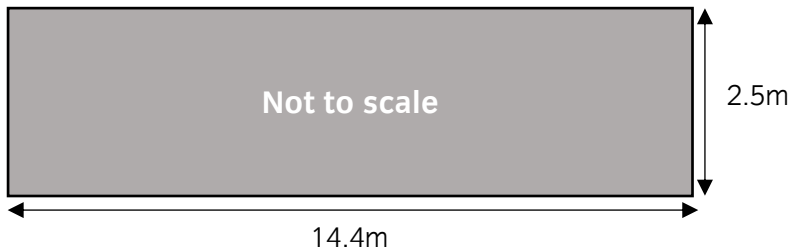
Show your working

Total price £ _____

(3 marks)

2C

The manager asks a handyman to paint a different wall before putting up some of the noticeboards.

The sketch diagram below shows the height and length of the wall.

Not to scale

2.5m

14.4m

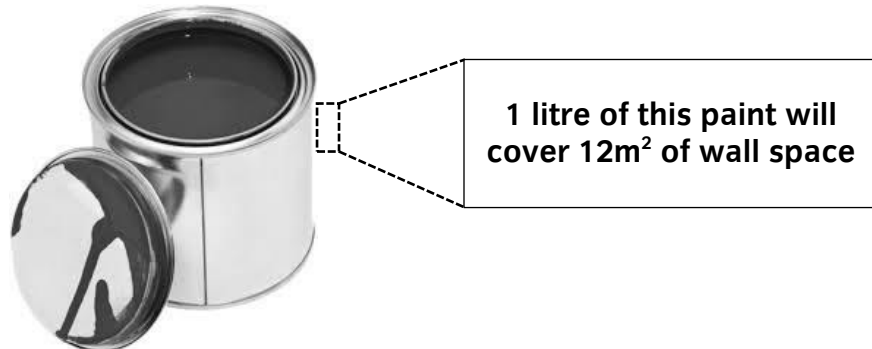Work out the area of the wall. Remember to include units in your answer.

Show your working

Area of wall _____

(3 marks)

2D

The picture below shows how much wall space a litre of the paint will cover.

1 litre of this paint will cover 12m^2 of wall space

Use your answer from **2C** to work out how many litres of paint it will take to cover the wall.

Show your working

_____ litres of paint

(3 marks)

Task 3   Car insurance

There are **15** marks available for this task.
You should check your work as you go along.

Introduction
The company *Insure & Drive* wants to show new customers that their car insurance is cheaper than other companies.

3A
The company creates the following table to show the savings for customers.

Savings for new customers			
Customer	**Cost with other company**	**Cost with *Insure & Drive***	**Saving**
Miss T F	£1 520	£1 155	£365
Ms J N	£880	£695	£185
Mr T P	£1 185	£945	£240
Mrs B G	£890	£690	£200
Mr J G	£1 100	£825	£275
Ms D S	£1 315	£1 000	£315
Mrs L H	£795	£625	£170
Mr R F	£1 260	£970	£290
Ms A K	£995	£715	£280
Mr M C		£1 345	£380

There is a value missing for Mr M C.
Work out what value should go in the **Cost with other company** column.

Show your working

Value £ _____

(3 marks)

3B
Work out the average (mean) **saving** for the new customers.

Show your working

Average (mean) saving £ _____

(3 marks)

3C
The company website shows this claim

> Change your car insurance to *Insure & Drive*
> and save **at least 20%** compared to your old insurance company

Do a calculation to show whether the claim is true for **Mr J G.**

Show your working

The claim is | true | | | **not true** | |
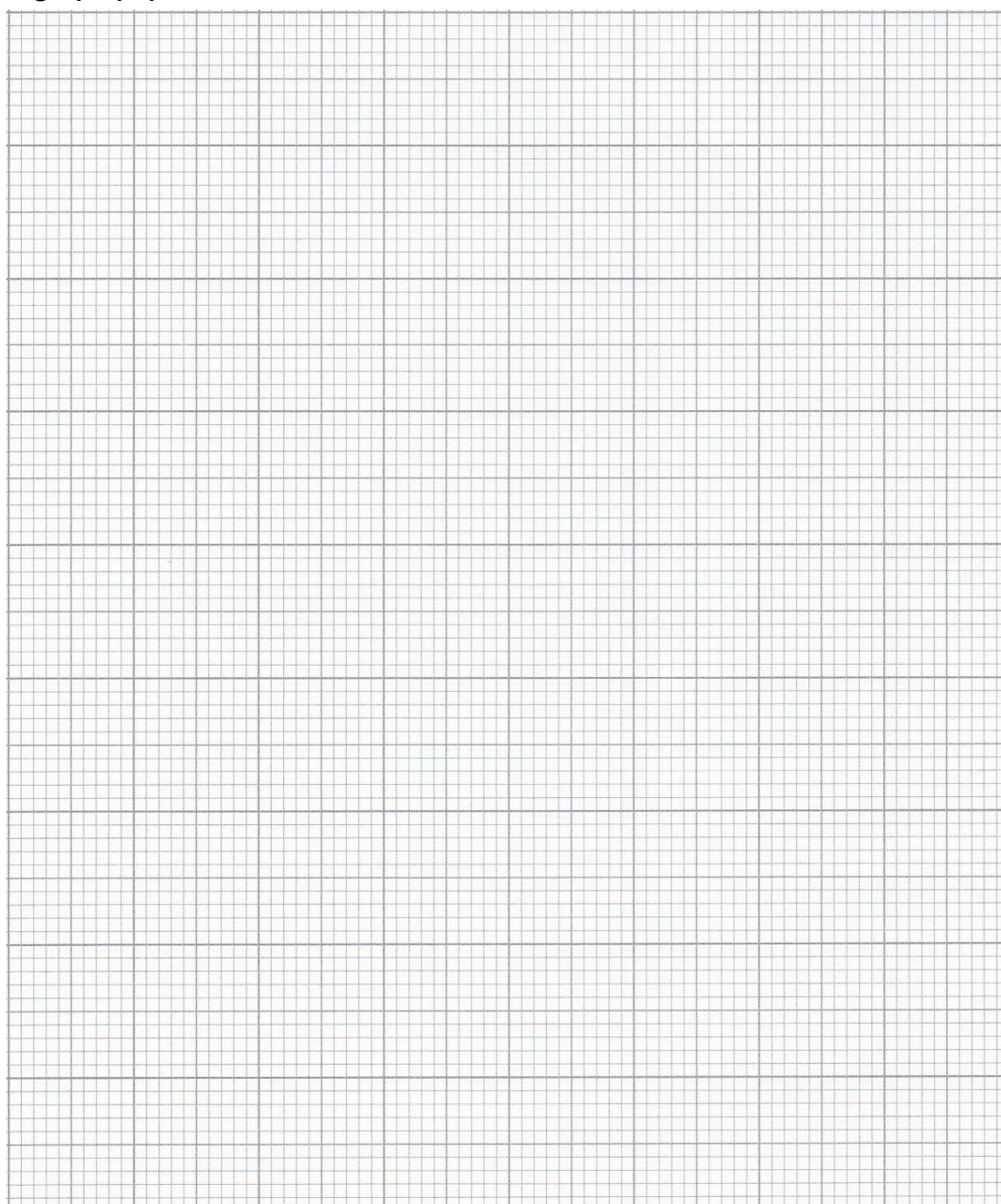(Tick one box)

(3 marks)

3D

The table below shows the average (mean) savings for customers per month over a one-year period.

Month	Average (mean) saving	Month	Average (mean) saving	Month	Average (mean) saving	Month	Average (mean) saving
January	£285	April	£275	July	£265	October	£240
February	£280	May	£270	August	£265	November	£227
March	£263	June	£257	September	£250	December	£220

Draw a suitable chart that compares the average (mean) savings for the **last six months** of the year.
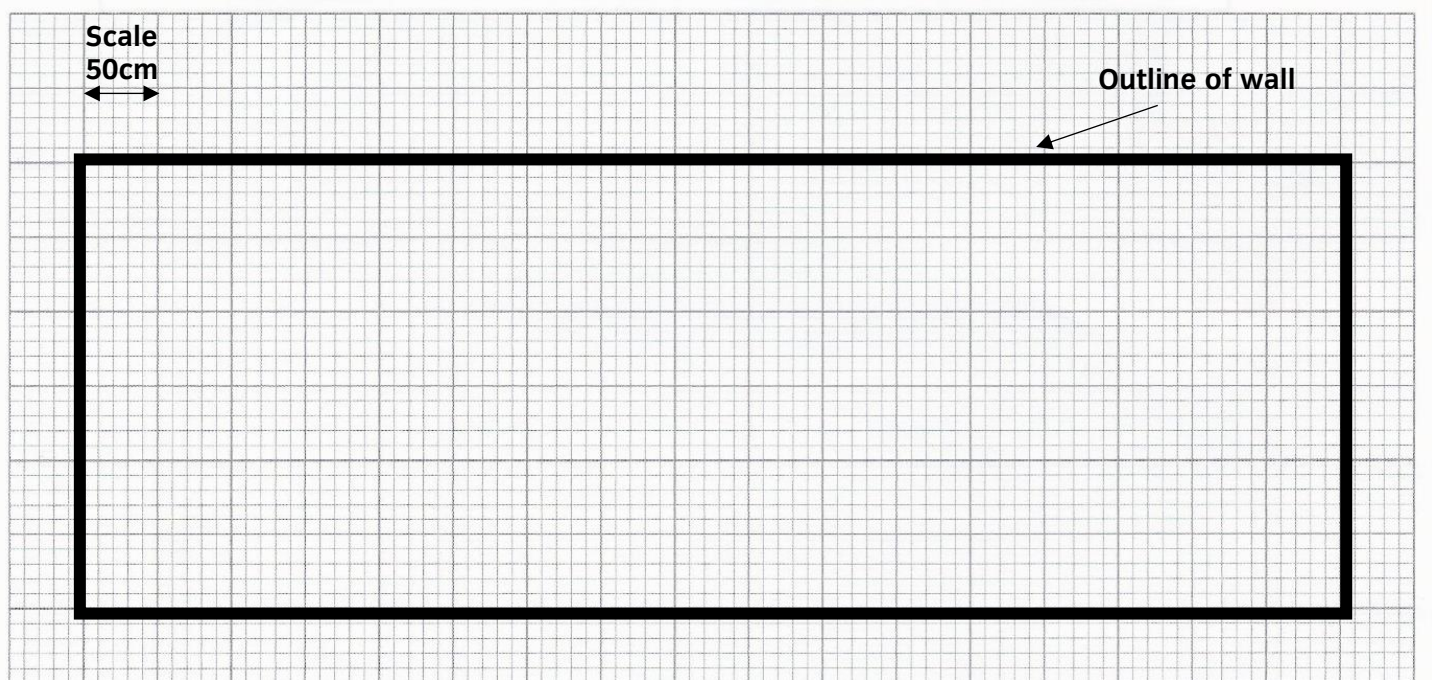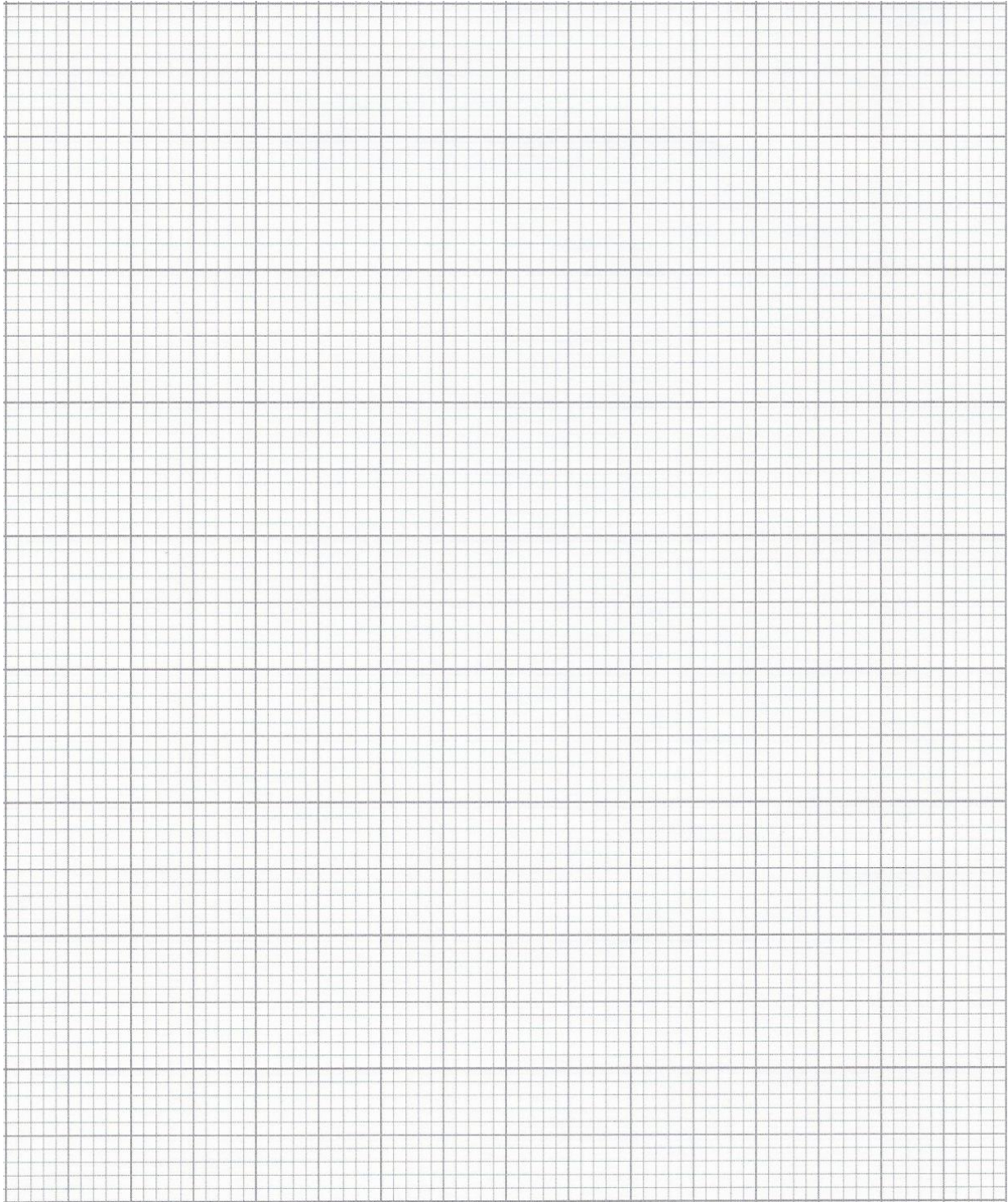
(4 marks)

Use the graph paper below.

3E
Each month the insurance company puts all new customers in a draw to win a prize.
The table shows the new customers for this month.

Savings for new customers			
Customer	**Cost with other company**	**Cost with *Insure & Drive***	**Saving**
Miss T F	£1 520	£1 155	£365
Ms J N	£880	£695	£185
Mr T P	£1 185	£945	£240
Mrs B G	£890	£690	£200
Mr J G	£1 100	£825	£275
Ms D S	£1 315	£1 000	£315
Mrs L H	£795	£625	£170
Mr R F	£1 260	£970	£290
Ms A K	£995	£715	£280
Mr M C		£1 345	£380

What is the likelihood that Mr MC will win the prize this month?
Write your answer as a fraction.

Explain what your probability means about Mr MC's chances of winning.

Show your working

Probability of winning the prize ⬜/⬜

Explanation

(2 marks)

End of assessment

Spare graph paper for 2A only

**Scale
50cm**

Outline of wall

Spare graph paper for 3D only

Additional space for working out and answers

Additional space for working out and answers