



Level 1 Certificate in Essential Skills

Application of Number



Sample 5

Length of assessment
1 hour 30 minutes

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration*

• If additional answer sheets are used, enter the additional number of pages in this box. 

- Please ensure that you staple additional answer sheets to the **back** of this answer booklet, clearly labelling these with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.
- All candidates need to use a **black/blue** pen. **Do not** use a pencil or gel pen, unless otherwise instructed.
- If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. Do not write on the source documents.

***I declare that I had no prior knowledge of the questions in this examination and that I will not divulge to any person any information about the questions.**

You should have the following for this assessment

- a pen with black or blue ink
- a pencil and eraser which may be used for **diagram/graph work only**
- a 30 cm ruler.
- You may use a calculator.
- You may use a protractor.
- You may use a dictionary.

General instructions

- There are **3** tasks to complete.
- Each task is worth 15 marks.
- You should spend an equal amount of time on each task.
- Read through each task carefully.
- The maximum marks available are shown for each question.
- Show your working out, you may get marks for it.
- Check your calculations.
- Write all working out and answers in this booklet.



Task 1 Going to a fashion show

There are **15** marks available for this task.

You should check all your work as you go along.

Introduction

This task is about planning a work trip to a fashion show.

You work for a fashion agency in Portadown.

You plan to travel by train to Bangor to see a fashion show.

You have a railcard that will give you some discounts.

1A

You will travel from Portadown to Bangor International.

The return fare is £18.45



**YOU CAN GET $\frac{1}{3}$ OFF
THE COST OF YOUR RAIL FARES
WITH A RAILCARD**

What is $\frac{1}{3}$ of £18.45?

Show your working

Amount of money off £ _____

(2 marks)

1B

What is the cost of the return rail fare using the railcard?

Show your working

Cost £ _____

(1 mark)

1C

Check your calculation in **1B**.

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)

1D

You must arrive at Bangor International station before 12:30pm

Train times from Portadown to Bangor International 						
Portadown	0915	0945	1015	1045	1115	1145
Lisburn	0938	1008	1038	1108	1138	1208
Great Victoria Street	0959	1029	1059	1129	1159	1229
Belfast Central	1010	1040	1110	1140	1210	1240
Holywood	1023	1053	1123	1153	1123	1253
Bangor International	1043	1113	1143	1213	1243	1313

What is the latest train you can catch from Portadown station that will get you there in time?

Time of train from Portadown station _____

(2 marks)

1E

Here is the menu for the station café.

<u>Station Café Menu</u>			
Tea...	£2.50	Sandwich...	£3.90
Coffee...	£2.95	Salad...	£3.90
Water...	£1.90	Crisps...	£0.65
Juice...	£2.20	Fruit...	£0.90

Choose a drink, a sandwich or salad, and a snack (crisps or fruit) from the menu.

Work out the total cost of your food and drink.

Show your working

Total cost £ _____

(2 marks)

1F

Your railcard gives you 20% off food and drink at the station café.

Use your answer from 1E and work out

- the discount for the food and drink you chose
- the **total** amount for food and drink you will pay **using your railcard discount**.

Show your working

Discount £ _____

Total amount to pay for food and drink after discount £ _____

(3 marks)

1G

You need to claim back from work your expenses (money you have spent for the day).

You paid for a ticket for the fashion show that cost £28 and a programme that cost £7.50 as well as your rail fare (**1B**) and food and drink (**1F**).

Draw a table to show all your expenses.

Include the amount you spent on your

- rail fare
- food and drink
- other expenses

and the total amount that you will claim.

Show your working

Draw your table here

(4 marks)

Task 2 New patio and lawn

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

Introduction

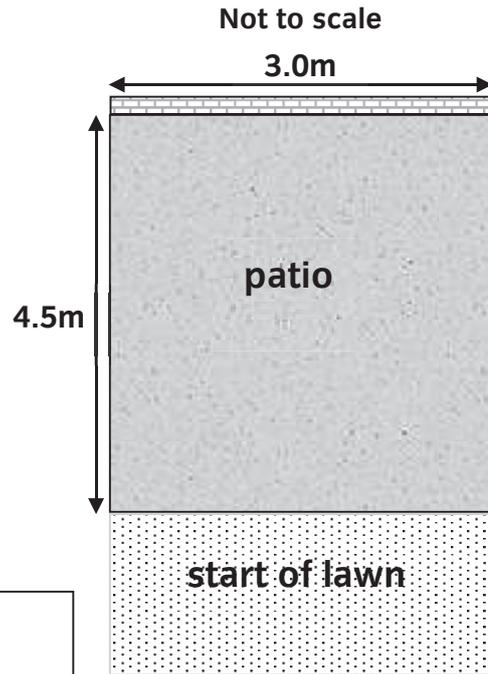
This task is about planning a patio and tidying up a lawn.

2A

The sketch on the right shows the space for the patio.

Use the scale given on the graph paper and draw an **outline** of the patio.

Use the graph paper on the next page.



Space for working

(2 marks)

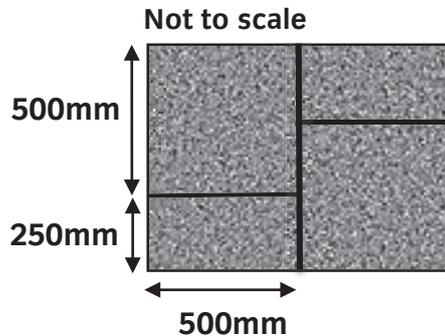
2B

You need to order paving slabs for your patio.

Paving slabs come in two different sizes

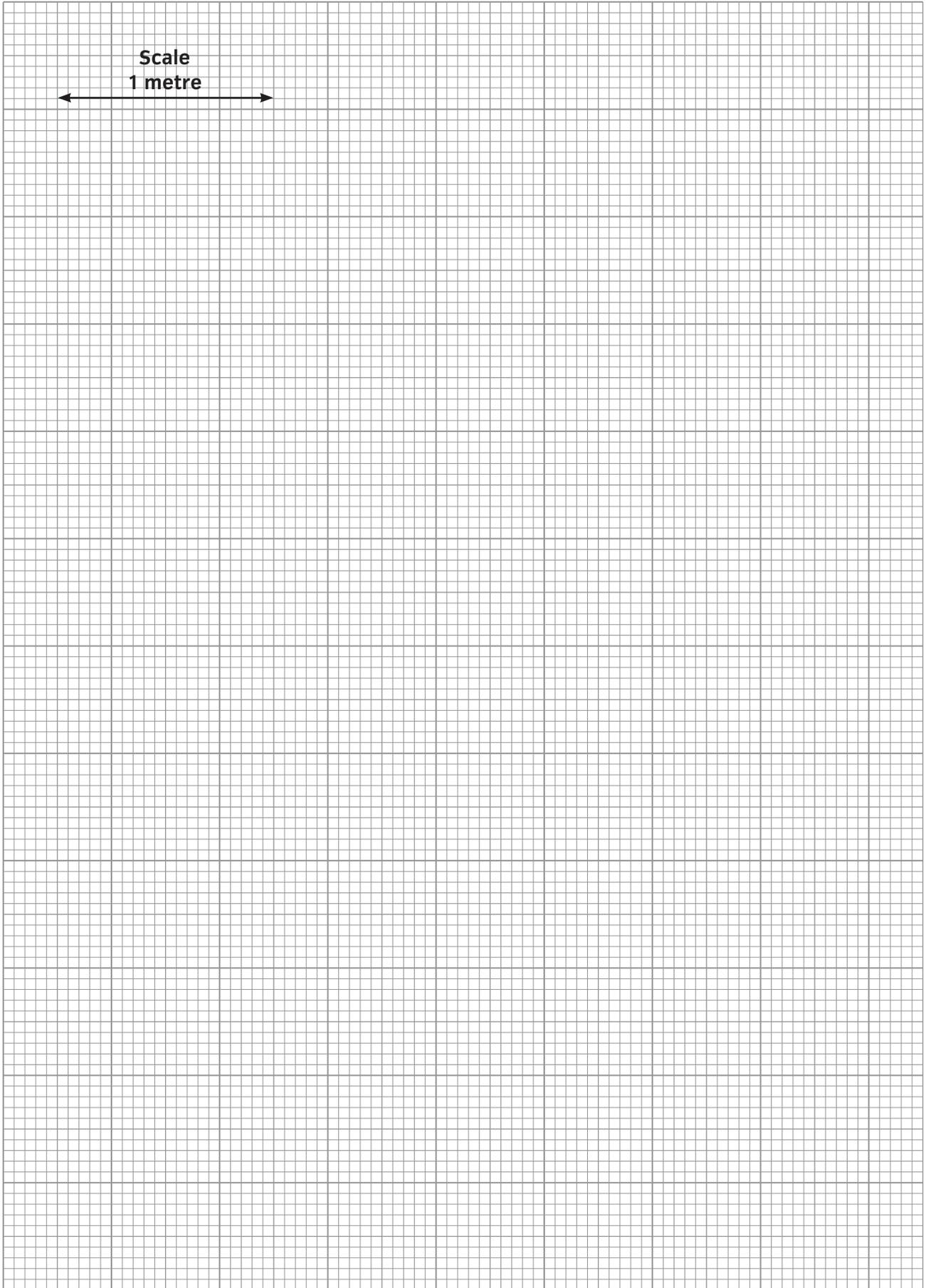
- large 500mm by 500mm
- small 500mm by 250mm

This diagram shows the **paving slab pattern** for the patio.



Add one row of the paving slab pattern across the top of your patio outline.

(4 marks)



2C

Work out how many of each size paving slab to order for **the whole** patio.

Show your working

Number of large slabs _____

Number of small slabs _____

(4 marks)

2D

A garden website says you should lay paving slabs on a mix of sand and cement.

It says

To make the mix, add **six** parts of sand to **one** part of cement

How much sand do you need to add to **three** shovels of cement?

Show your working

Number of shovels of sand _____

(2 marks)

2E

The lawn is a rectangle that measures 3m wide and 7m long. It will need a plastic strip around the edge to keep it tidy.

What is the perimeter of the lawn?

Make sure you put the units on your answer.

Show your working

Perimeter _____

(3 marks)

Task 3 Sleeping

There are **15** marks available for this task.

You should check all your work as you go along.

Introduction

This task is about the number of hours teenagers sleep each night.

A newspaper report states **teenagers need at least 9 hours sleep each night.**

A national survey states that **on average teenagers get only 7 hours sleep each night.**

A local college does a survey of its teenage learners.

Here are the results.

Name of learner	Number of hours of sleep last night								
	< 5	5	6	7	8	9	10	11	>11
Michele					✓				
Jamil			✓						
Noah					✓				
Dion		✓							
Logan			✓						
Marty					✓				
Stella				✓					
Conor						✓			
Ryan		✓							
Ethan				✓					
Oisin			✓						
Jasmine								✓	
Ruth					✓				
Robin			✓						
Linda							✓		
Gina						✓			
Liam		✓							
Alfie							✓		
Teresa					✓				
Callum					✓				

3A

What is the range of the numbers of hours of sleep the college learners had last night?

Show your working

Range _____ hours

(2 marks)

3B

What does this range (**3A**) tell you about the numbers of hours of sleep the learners had last night?

Comment

(1 mark)

3C

What is the average (mean) number of hours of sleep the college learners had last night?

Show your working

Mean _____ hours

(3 marks)

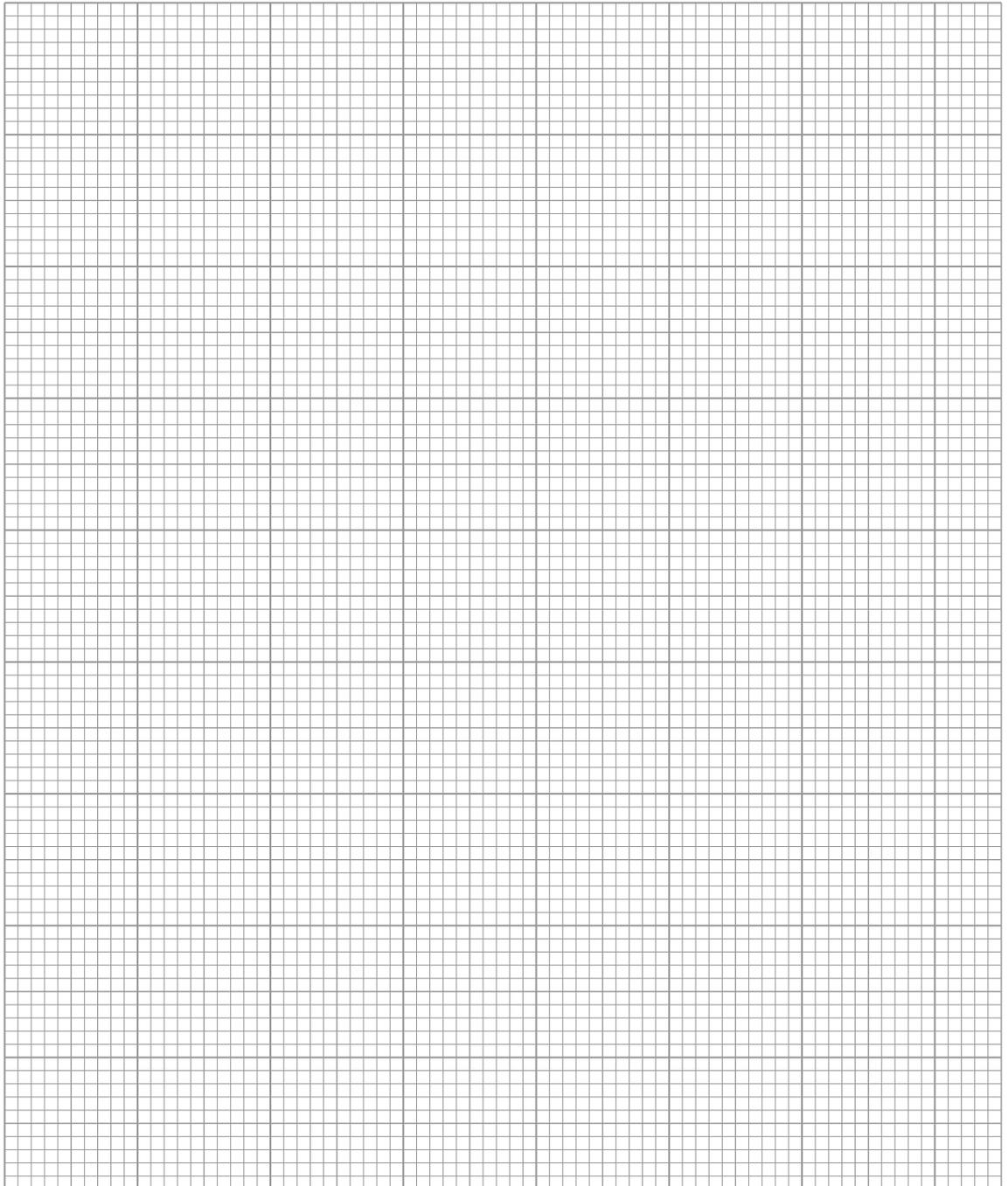
3D

Draw a suitable chart to show

- the amount of sleep that teenagers need according to the newspaper report
- the results of the national survey
- the results of the college survey - for average (mean) only

(4 marks)

Use the graph paper below.



3E

Name of learner	Number of hours of sleep last night								
	< 5	5	6	7	8	9	10	11	>11
Michele					✓				
Jamil			✓						
Noah					✓				
Dion		✓							
Logan			✓						
Marty					✓				
Stella				✓					
Conor						✓			
Ryan		✓							
Ethan				✓					
Oisin			✓						
Jasmine								✓	
Ruth					✓				
Robin			✓						
Linda							✓		
Gina						✓			
Liam		✓							
Alfie							✓		
Teresa					✓				
Callum					✓				

The newspaper report stated that **teenagers need at least 9 hours sleep each night.**

How many of the learners had less sleep than they need?

Space for working

Number of learners _____

(1 mark)

3F

Use your answer in **3E** to work out the fraction of learners who had **less** sleep than they need.

Show your working

Learners who had less sleep than they need

$$\frac{\boxed{}}{\boxed{}}$$

(2 marks)

3G

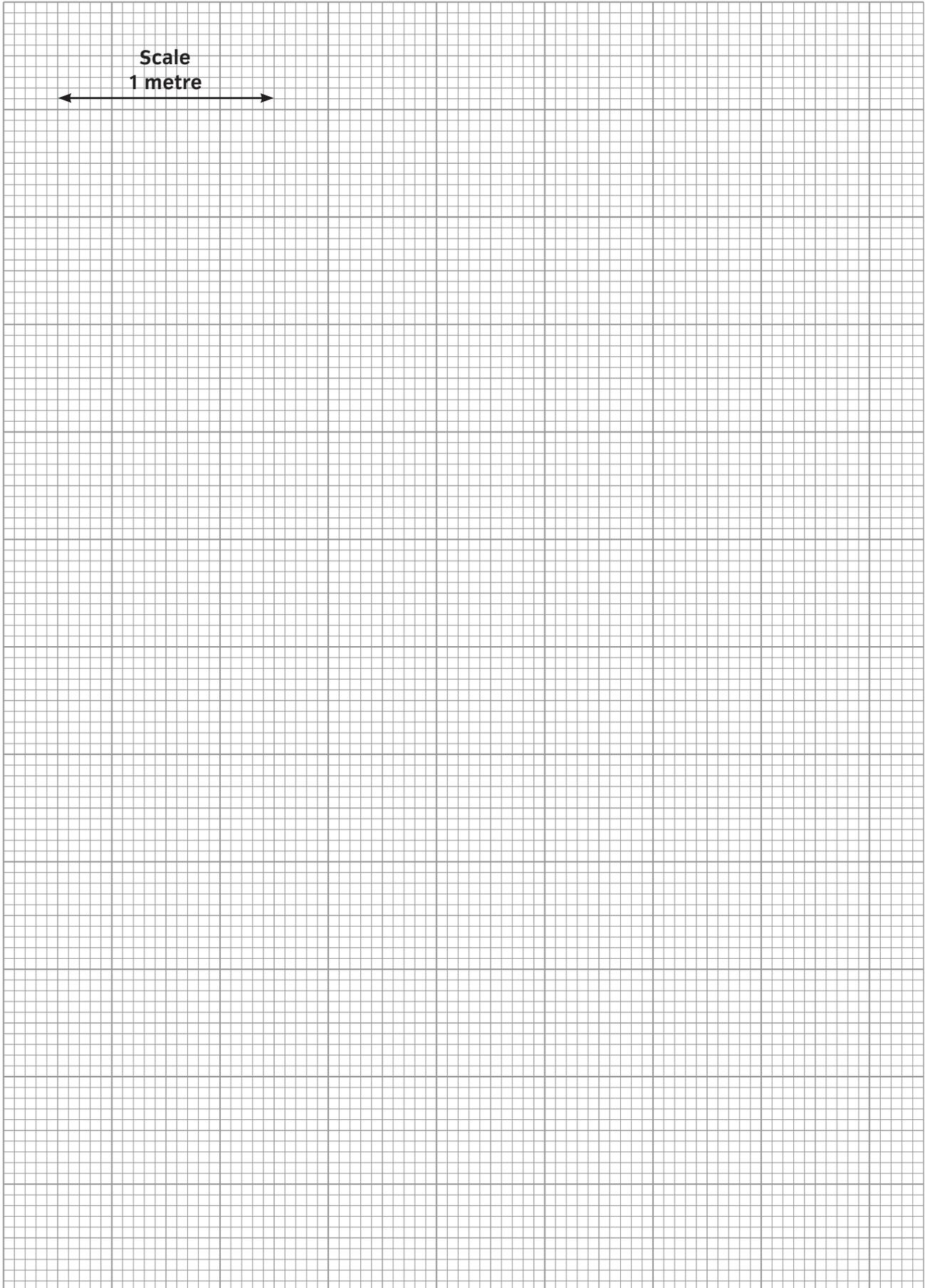
If each learner sleeps for the same number of hours every night as they did last night, what is the probability that one particular learner will have enough sleep tonight?

Show your working

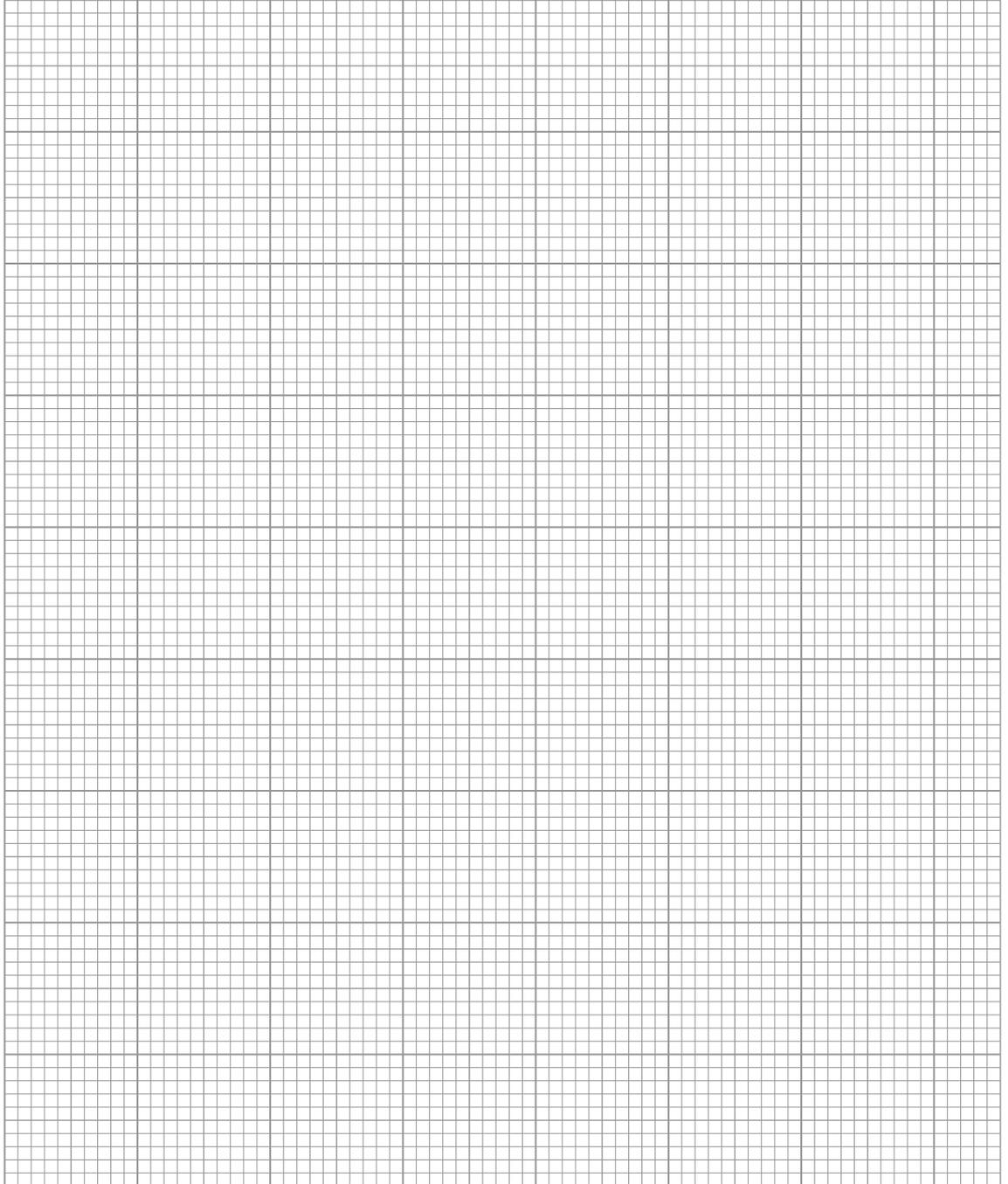
Probability _____

(2 marks)

Spare graph paper for 2A only



Spare graph paper for 3E only



Extra space for working out and answers

Extra space for working out and answers