



4800-111 Level 1 Certificate in Essential Skills Application of Number



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August 2016 Version 1

Sample Paper 2

Length of assessment – 1 hour 30 minutes

Total marks available – 45 marks

Candidate Name (First, Middle, Last)

Candidate enrolment number

DOB (DDMMYYYY)

Candidate signature and declaration

Assessment date (DDMMYYYY)

Centre number

Length of assessment:

1 hour 30 minutes

You should have the following for this assessment

- a pen with black or blue ink
- a pencil and eraser for graph/diagram work
- a 30cm 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.

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





Task 1 Buying a flat

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

You should check all your work as you go along.

Introduction

This task is about a woman buying a flat.

1A

A woman wants to buy a flat in a block in the centre of town.

Prices of flats

Flat number	Floor	Number of bedrooms	Parking space	Price (£)
1	Ground	1	No	65 000
2	Ground	1	Yes	68 000
3	Ground	2	No	68 500
4	Ground	2	Yes	70 000
5	First	1	No	67 500
6	First	2	No	72 000
7	First	2	Yes	75 000
8	First	2	Yes	75 500
9	Second	1	Yes	70 000
10	Second	2	No	75 000
11	Second	2	Yes	80 000
12	Second	2	Yes	85 000

The woman wants the **cheapest** flat that

- is on the second floor
- has two bedrooms
- and has a parking space.

Which is the cheapest suitable flat?

Show your working
Flat number _____
Price £ _____

(2 marks)





1B

The woman needs to pay 5% of the cost of the flat for a deposit.

How much is the deposit?

Show your working

Deposit £ _____

(2 marks)

1C

The woman began saving at the start of January last year.
She saved £3 000 by the end of the year.

On average, how much did the woman save a month?

Show your working

Saving per month £ _____

(2 marks)

1D

If the woman continues to save this amount each month, how many **more** months will it take her to save the **rest** of the deposit?

Show your working

_____ **months**

(2 marks)



1E

The woman gets paid on the last Friday of each month and her next pay day is 27th January.

When she has all of the deposit it will take six weeks to complete everything so that she can move into the flat.

What is the earliest date that the woman can move in?

Calendar

January							February							March						
M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
						1			1	2	3	4	5			1	2	3	4	5
2	3	4	5	6	7	8	6	7	8	9	10	11	12	6	7	8	9	10	11	12
9	10	11	12	13	14	15	13	14	15	16	17	18	19	13	14	15	16	17	18	19
16	17	18	19	20	21	22	20	21	22	23	24	25	26	20	21	22	23	24	25	26
23	24	25	26	27	28	29	27	28						27	28	29	30	31		
30	31																			
April							May							June						
M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
					1	2	1	2	3	4	5	6	7				1	2	3	4
3	4	5	6	7	8	9	8	9	10	11	12	13	14	5	6	7	8	9	10	11
10	11	12	13	14	15	16	15	16	17	18	19	20	21	12	13	14	15	16	17	18
17	18	19	20	21	22	23	22	23	24	25	26	27	28	19	20	21	22	23	24	25
24	25	26	27	28	29	30	29	30	31					26	27	28	29	30		
July							August							September						
M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
					1	2		1	2	3	4	5	6					1	2	3
3	4	5	6	7	8	9	7	8	9	10	11	12	13	4	5	6	7	8	9	10
10	11	12	13	14	15	16	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	18	19	20	21	22	23	21	22	23	24	25	26	27	18	19	20	21	22	23	24
24	25	26	27	28	29	30	28	29	30	31				25	26	27	28	29	30	
31																				
October							November							December						
M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su	M	Tu	W	Th	F	Sa	Su
						1			1	2	3	4	5					1	2	3
2	3	4	5	6	7	8	6	7	8	9	10	11	12	4	5	6	7	8	9	10
9	10	11	12	13	14	15	13	14	15	16	17	18	19	11	12	13	14	15	16	17
16	17	18	19	20	21	22	20	21	22	23	24	25	26	18	19	20	21	22	23	24
23	24	25	26	27	28	29	27	28	29	30				25	26	27	28	29	30	31
30	31																			

Show your working

Date _____

(2 marks)



1F

Explain why your answer to **1E** is the earliest date the woman can move in.

Explanation

(1 mark)

1G

Draw a table to summarise your results. Include

- the price of the flat
- the total deposit
- the amount of deposit already saved
- the amount of the deposit the woman still needs to save
- how long it will take her to save the rest of the deposit
- the earliest date the woman can move in.

(4 marks)





Task 2 Filing cabinets

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

You should check all your work as you go along.

Introduction

This task is about fitting filing cabinets along a wall.

2A

The new office measures 7 metres long and 6 metres wide.

What is the area of the new office?

Show your working

Area _____ m²

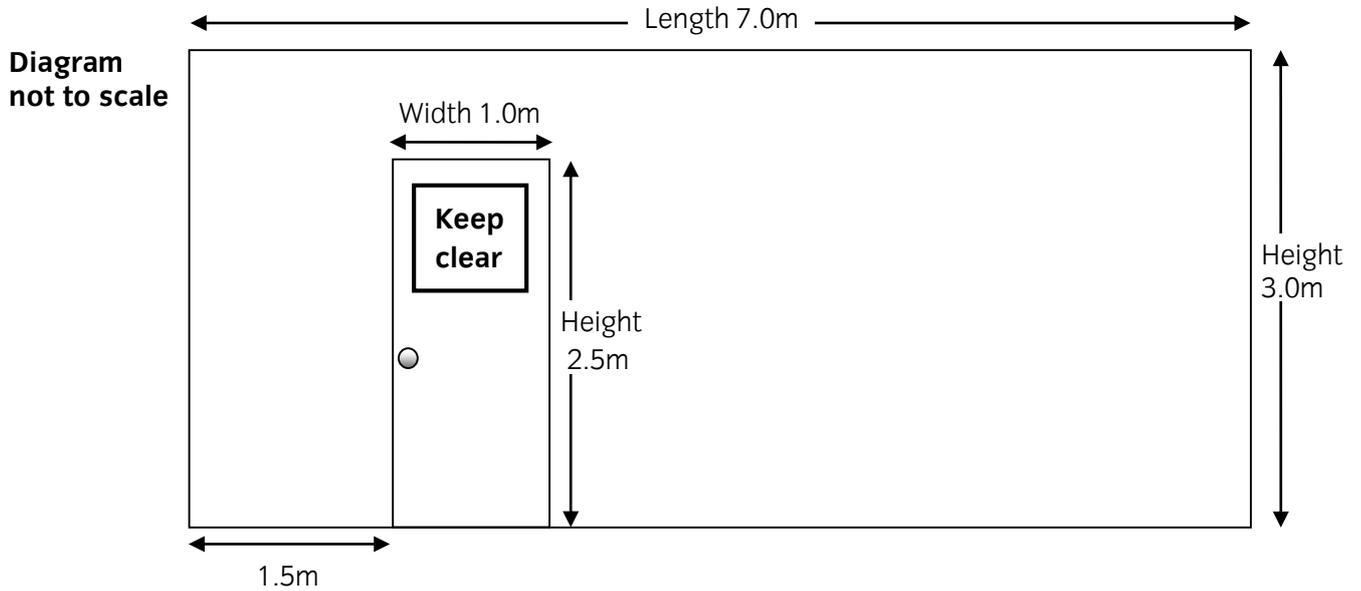
(2 marks)





2B

This diagram shows the wall where the filing cabinets will go.



What is the length of the wall on each side of the door? Make sure you put the units on your answer.

Show your working

Length of the wall on left of door _____

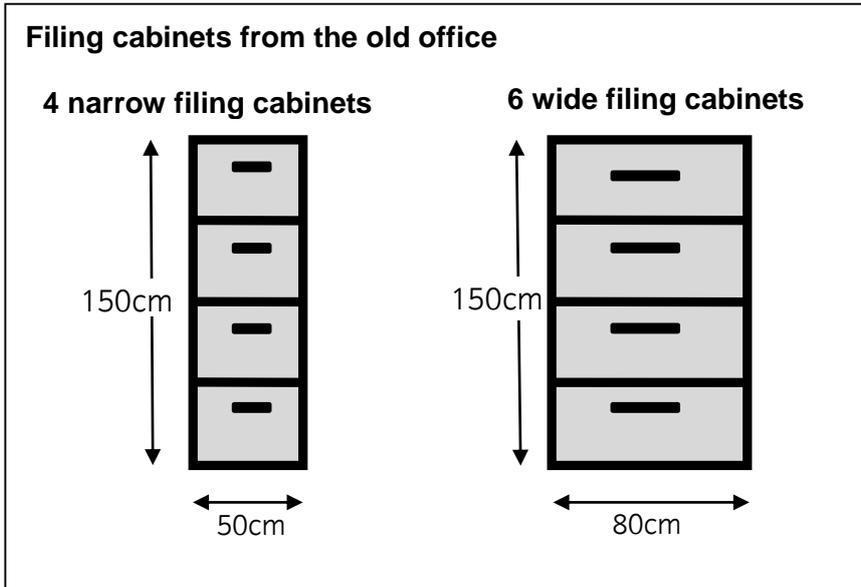
Length of the wall on right of door _____

(2 marks)



2C

This diagram shows the filing cabinets from the old office.



There are 4 narrow and 6 wide filing cabinets altogether. Your manager wants as many of these as possible to go along the wall.

How many of each size of filing cabinet will you put along the wall?

Put your answers in the tables below

Show your working

Left side	
Size	Number
Narrow	
Wide	

Right side	
Size	Number
Narrow	
Wide	

(4 marks)

2D

How many of each size of filing cabinet will you have left over?

Put your answers in the table below.

Show your working

Size	Number
Narrow	
Wide	

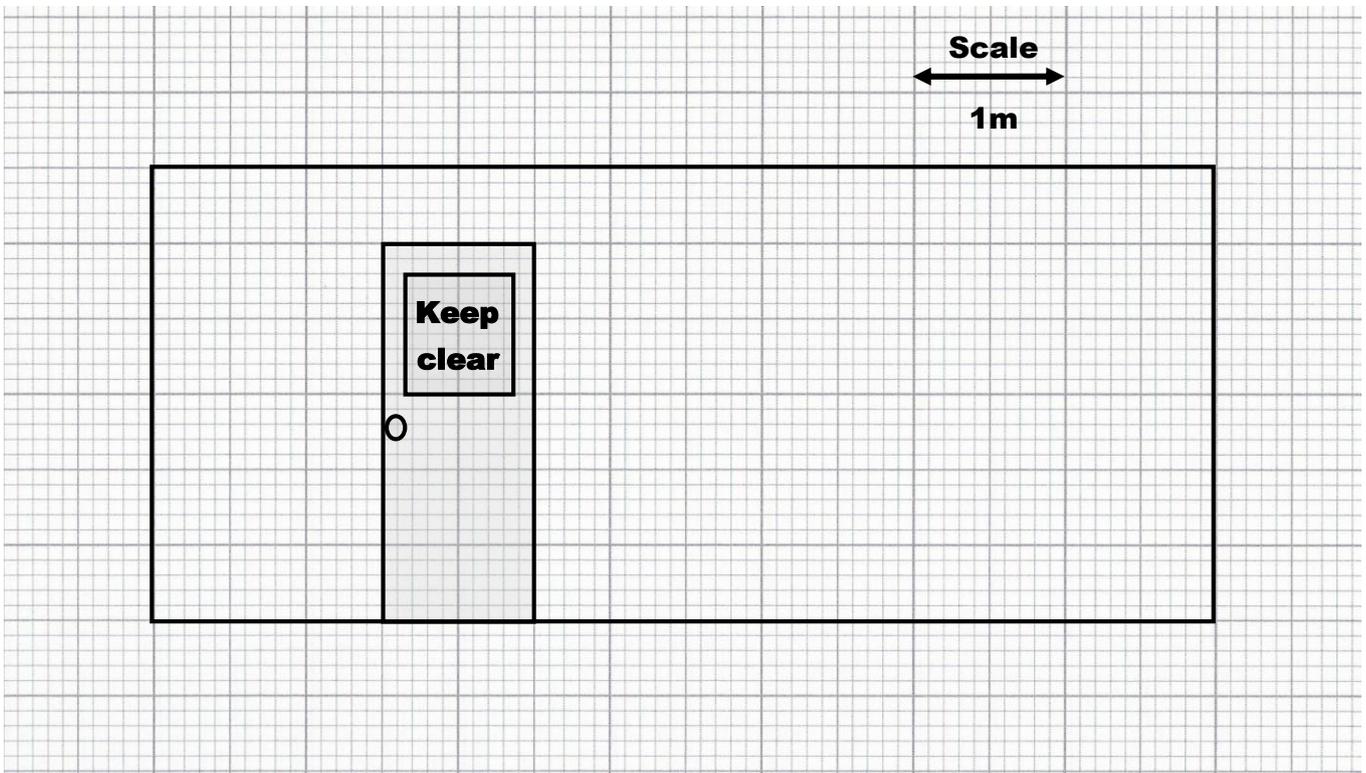
(2 marks)

2E

Draw the filing cabinets to scale on the scale diagram below.

Label your scale diagram.

(5 marks)





Task 3 Designer jeans

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

You should check all your work as you go along.

Introduction

This task is about buying and selling different brands of jeans.

A shop sells two similar types of jeans.

One of them is a designer label and the other is the shop's own brand.

Cost information for jeans		
Type of jeans	Cost to buy	Selling price
Designer label	£40 each	£80 each
Own brand	£12 each	£20 each

3A

You need to compare the profit from selling the different types of jeans.

$$\text{Profit (£)} = \text{selling price per pair} - \text{cost per pair}$$

How much is the profit for one pair of each type of jeans?

Show your working

Profit for designer label jeans £ _____

Profit for own brand jeans £ _____

(2 marks)





3B

How many own brand jeans does the shop need to sell to make the same amount of profit as it makes from selling one pair of the designer label jeans?

Show your working

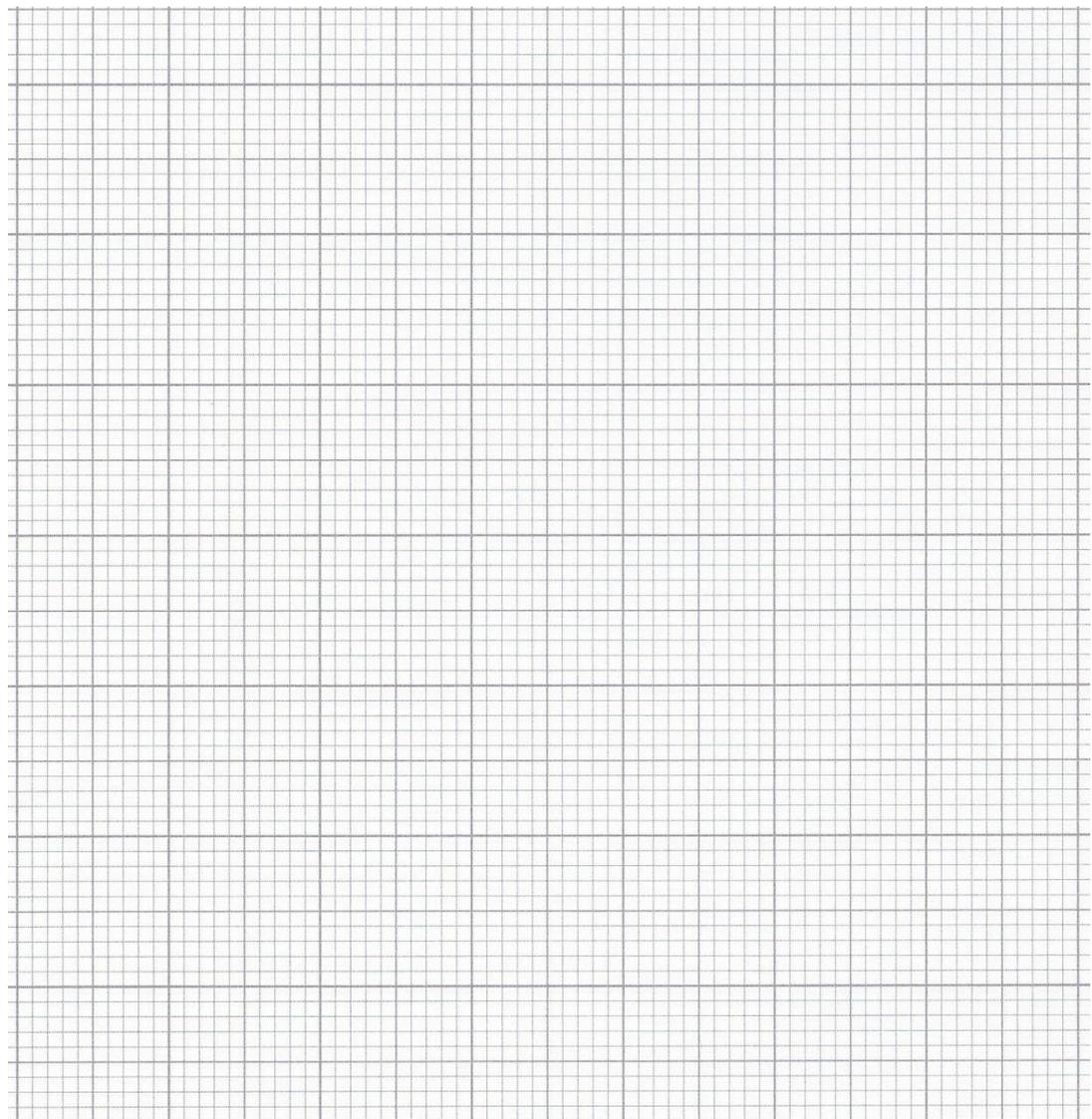
Number of pairs of own brand jeans _____

(1 mark)

3C

Draw a chart to compare the costs to buy, the selling prices and the profits for each type of jeans.

(4 marks)





3D

The table shows the number of pairs of **own brand** jeans the shop sold each month last year.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
14	17	20	12	15	18	24	16	26	27	23	28

What is the mean number of pairs of **own brand** jeans the shop sold a month?

Show your working

Mean _____

(3 marks)

3E

Check your calculation in **3D**.

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)

3F

Work out the range of the number of pairs of **own brand** jeans the shop sold a month.

Show your working

Range _____

(2 marks)

3G

Explain what your answer shows about the numbers of **own brand** jeans the shop sold.

Explanation

(1 mark)





3H

Last year, for **designer label** jeans

- the mean was 10
- the range was 2

From your results, how likely is it that the shop will sell **more own brand** jeans than designer label jeans next year?

How likely?	<input type="checkbox"/> impossible	<input type="checkbox"/> unlikely	<input type="checkbox"/> even chance	<input type="checkbox"/> very likely	<input type="checkbox"/> certain
--------------------	--	--	---	---	---

(Tick one box)

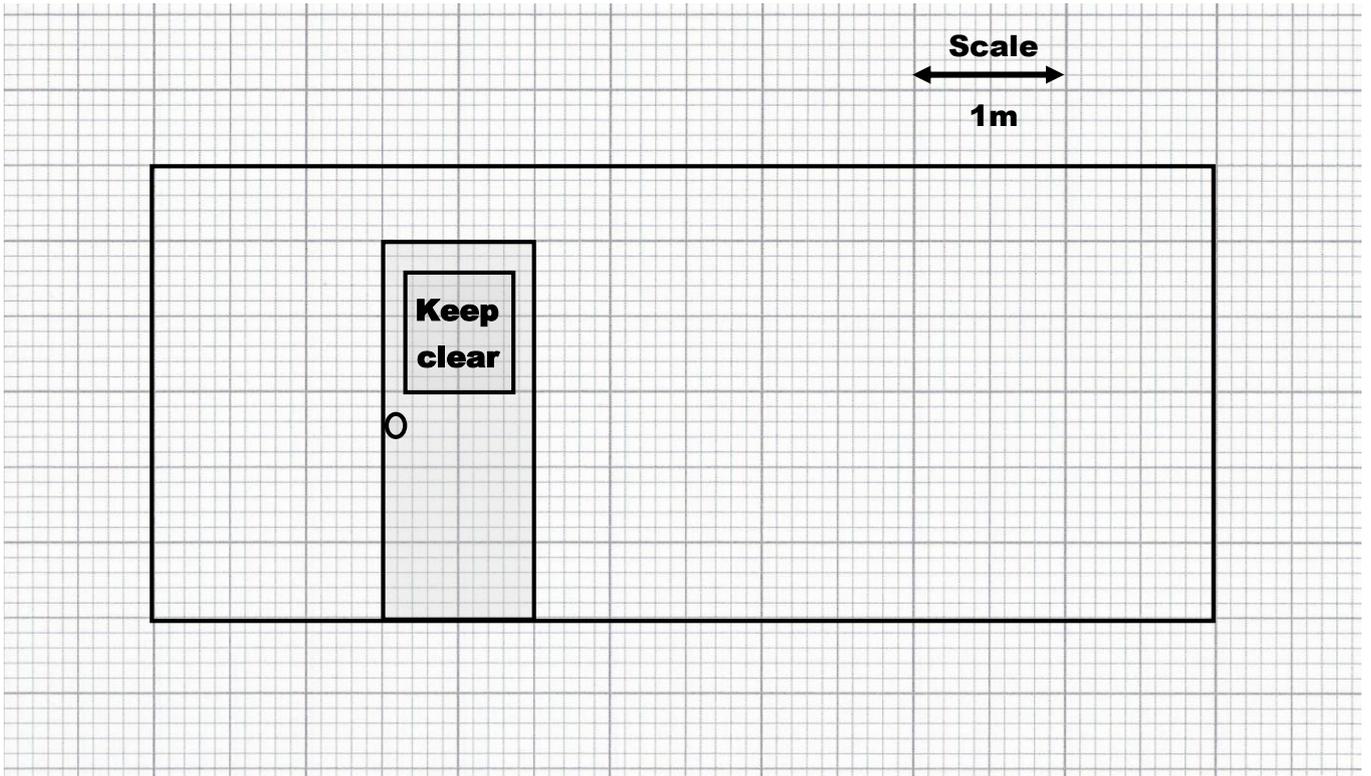
(1 mark)

End of Assessment



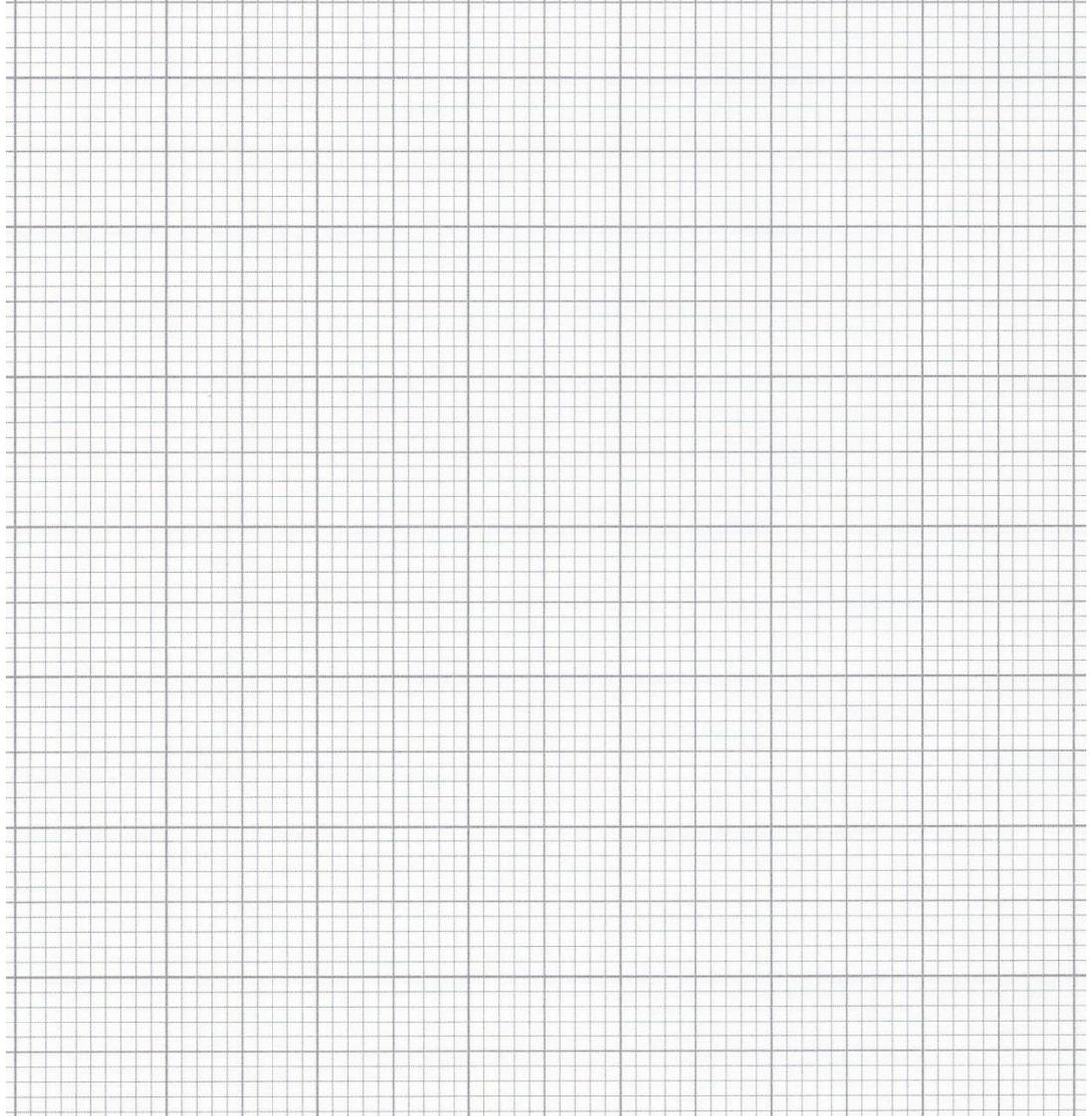


Spare diagram for 2E





Spare graph paper for 3C





Extra space for working out and answers





Extra space for working out and answers



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