

Please check the examination details below before entering your candidate information

Candidate surname	Other names	
Pearson Edexcel Functional Skills	Centre Number	Candidate Number
Practice Set 3		
Time: 25 minutes	Paper Reference PRACL1/N03	
Mathematics Level 1 Section A (Non – Calculator)		
You must have: Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.		
		Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space 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 answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**
- Take the value of π to be 3.14

Information

- The total mark for this section is 14.
- The marks for **each** question are shown in brackets.
– *use this as a guide as to how much time to spend on each 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 ►

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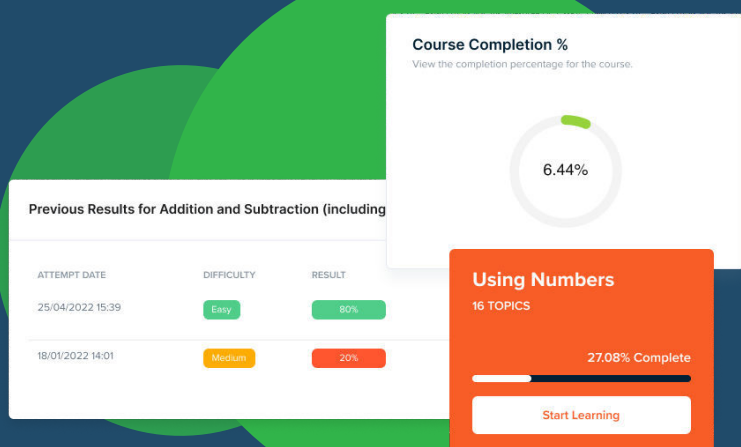
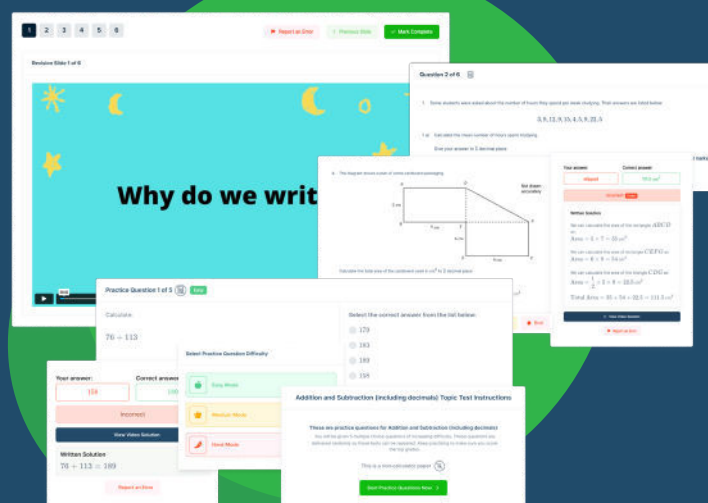

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SECTION A

Answer ALL questions. Write your answers in the spaces provided.

1 Here are 4 numbers.

29.4 50.8 24.7 19.9

Work out the mean of these numbers.

(3)

$$29.4 + 50.8 + 24.7 + 19.9 = 124.8$$

$$124.8 \div 4 = 31.2$$

31.2

(Total for Question 1 is 3 marks)

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2

Work out $12^2 + 208$

(3)

$$12^2 = 12 \times 12 = 144$$

$$144 + 208 = 352$$

352

(Total for Question 2 is 3 marks)



S 6 8 4 6 0 A 0 3 0 8

3

Turn over ►

- 3 Greta manages a visitor attraction.
She knows 48 600 people visited the attraction last spring.

Greta says

"There has been a 15% increase in the number of visitors this spring compared to spring last year."

- (a) Work out how many people visited the attraction in spring this year for Greta.

(3)

$$10\% \text{ of } 48\,600 = 48\,600 \div 10 = 4860$$

$$5\% = 4860 \div 2 = 2430$$

$$15\% = 10\% + 5\% = 4860 + 2430 = 7290$$

$$\begin{array}{r} \text{Visitors this spring: } 48\,600 \\ + \quad 7\,290 \\ \hline 55\,890 \end{array}$$

55 890

- (b) Use reverse calculations to show a check of your working.

(1)

$$\begin{array}{r} 55\,890 \\ - \quad 7\,290 \\ \hline 48\,600 \end{array}$$

(Total for Question 3 is 4 marks)



4 Fabio is a restaurant manager.

He has this list of jobs.

jobs	
check supplies	$\frac{3}{4}$ of an hour
write rotas	1 hour 20 minutes
update social media	50 minutes
do accounts	$1\frac{1}{2}$ hours

Fabio thinks he can complete all of these jobs in $4\frac{1}{4}$ hours.

Is Fabio correct?

You **must** show your working.

Convert all to minutes:

(4)

- $\frac{3}{4}$ of an hour = $\frac{3}{4}$ of 60 mins = 45 mins
- 1h 20m = 80 mins
- 50 mins
- $1\frac{1}{2}$ hours = 90 mins

$$\begin{aligned} \text{Total time: } 45 + 80 + 50 + 90 &= 45 + 80 + 140 \\ &= 45 + 220 = \boxed{265 \text{ mins}} \end{aligned}$$

$$\begin{aligned} 4\frac{1}{4} \text{ hours in mins} &= (4 \times 60) + 15 = \cancel{240} + 15 = 255 \text{ mins} \\ &= \boxed{255 \text{ mins}} \end{aligned}$$

Fabio is not correct

(Total for Question 4 is 4 marks)

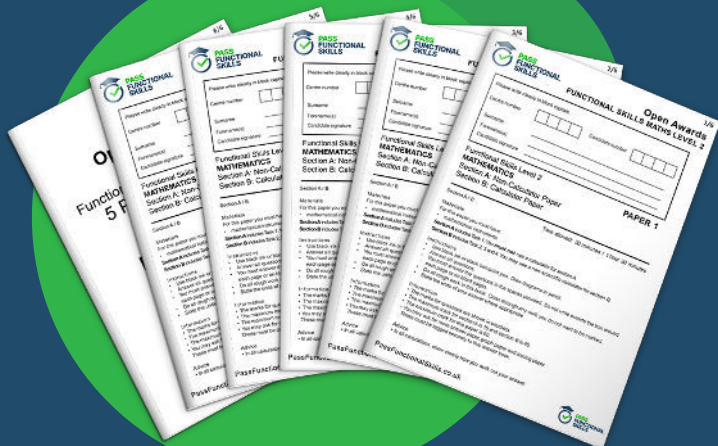
TOTAL FOR SECTION A IS 14 MARKS



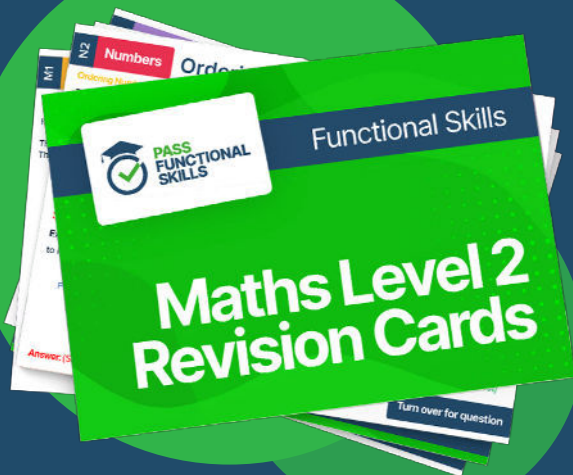
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Practice Set 3		
Time: 1 hour 30 minutes	Paper Reference PRACL1/C03	
Mathematics		
Level 1		
Section B (Calculator)		
You must have: Pen, calculator, HB pencil, eraser, ruler graduated in cm and mm, protractor, pair of compasses. Tracing paper may be used.		Total Marks

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- **Calculators may be used.**
- If your calculator does not have a π button take the value of π to be 3.14

Information

- The total mark for this section is 42.
- The total mark for this paper is 56.
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*
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Advice

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Turn over ►

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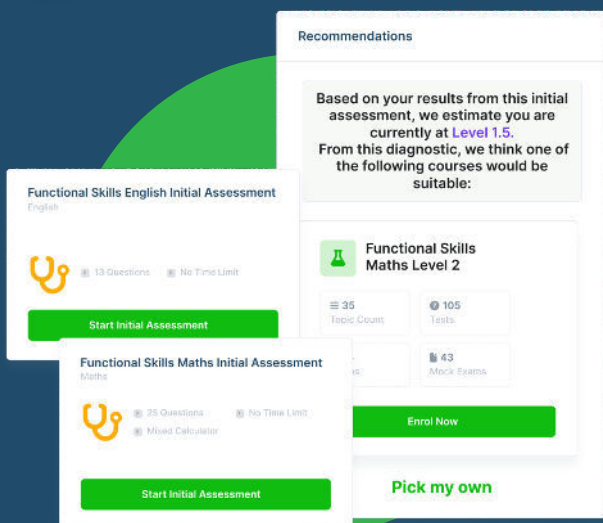
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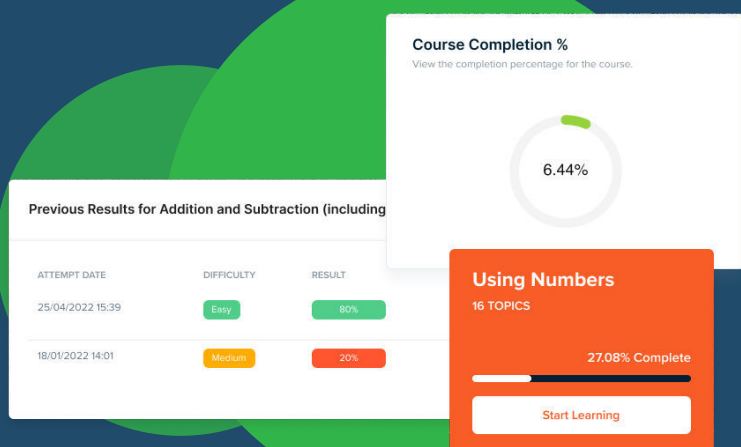
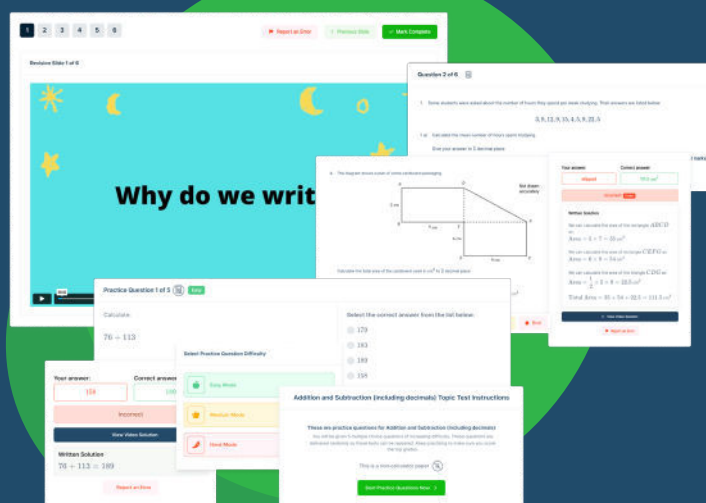


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SECTION B

Answer ALL questions. Write your answers in the spaces provided.

1 Here are five numbers.

10754 9241 4249 7012 13958

(a) Calculate the range of these numbers.

$$\begin{aligned} \text{range} &= \text{largest number} - \text{smallest number} \\ &= 13\,958 - 4\,249 \\ &= 9\,709 \end{aligned}$$

9709



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

round largest and smallest number:

14 000, 4000

range: $14\,000 - 4\,000 = 10\,000$

(Total for Question 1 is 3 marks)



2 Emily is making sausage rolls for a party.

She has this list of ingredients.

ingredients for 4 sausage rolls

450 g	sausage meat
1	egg
1	red onion
250 g	ready-made pastry

Emily wants to make 75 sausage rolls for the party.

ready-made pastry comes in packs.
There are 500 g of pastry in each pack.

Emily thinks 9 packs of ready-made pastry is the smallest number she needs to make 75 sausage rolls.

Is Emily correct?

Show why you think this.

Need to find how many packs of ready made (4)
pastry are needed to make 75 sausage rolls.

$$75 \div 4 = 18.75$$

(need to multiply
quantities in recipe
by 18.75).

<u>4 Sausage rolls</u>		<u>75 Sausage rolls</u>
250g pastry	→ x 18.75	4687.5g pastry

No. packs needed to have 4687.5g of pastry:
 $4687.5 \div 500 = 9.375$ packs.

Emily is not correct.
She needs 10 packs.

(Total for Question 2 is 4 marks)



S 6 8 4 6 1 A 0 3 1 6

- 3 Gareth is changing his gas supplier to GES Energy.

He has this information.

GES Energy

annual fee £231.65

plus

4.71 pence for each kWh used

get 5% off the total charge if you pay by direct debit

Last year Gareth used 42 000 kWh of gas.

Gareth thinks he will use the same amount of gas this year.

He will pay by direct debit.

Work out the total gas bill Gareth will pay using GES Energy.

(5)

$$\begin{aligned} \text{Price of gas used: } 42000 \times 4.71 &= 197820 \text{ p} \\ &= \pounds 1978.20 \end{aligned}$$

$$\begin{aligned} \text{Add annual fee: } \pounds 1978.20 + \pounds 231.65 &= \pounds 2209.85 \\ &= \text{Total Charge} \end{aligned}$$

5% discount. To reduce by 5%, need to find $100\% - 5\% = 95\%$. So multiply total charge by 0.95:

$$\begin{aligned} \pounds 2209.85 \times 0.95 &= \pounds 2099.3575 \\ &= \underline{\underline{\pounds 2099.36}} \end{aligned}$$

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£

(Total for Question 3 is 5 marks)



4 Sam wants to create a space for water play in the village hall.
He has this diagram of the floor in the village hall.

The space for water play must be


- in the shape of a rectangle 3.5 m by 4 m
- at least 2 m away from other activity spaces
- at least 3 m away from any door.


3.5 squares
by 4 squares.

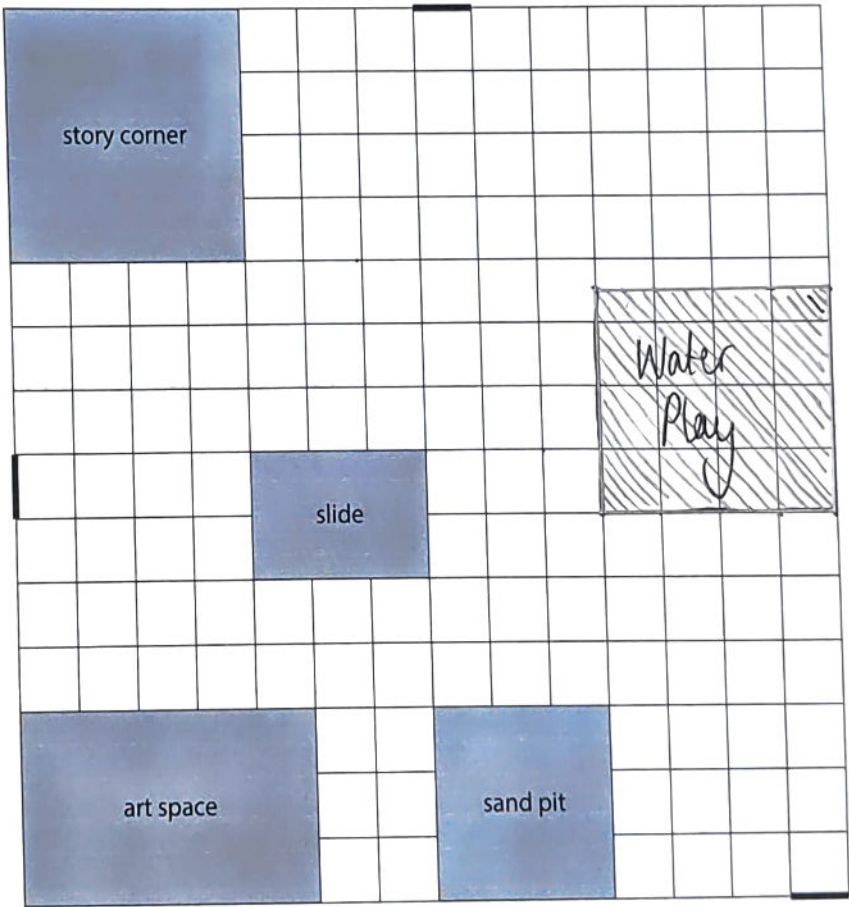
Draw a space for water play on the grid below.

(3)

Key 1 square length on the grid represents 1 m on the village hall floor

 activity space

 door



(Total for Question 4 is 3 marks)

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5 Here is information about the distances travelled in miles by some people yesterday.

distance (miles)			
5	1	12	8
7	2	8	7
18	7	9	11
14	22	7	6
2	3	3	7

Sandro starts to show this information in a grouped frequency table.

Complete the grouped frequency table.
Use five equal groups.

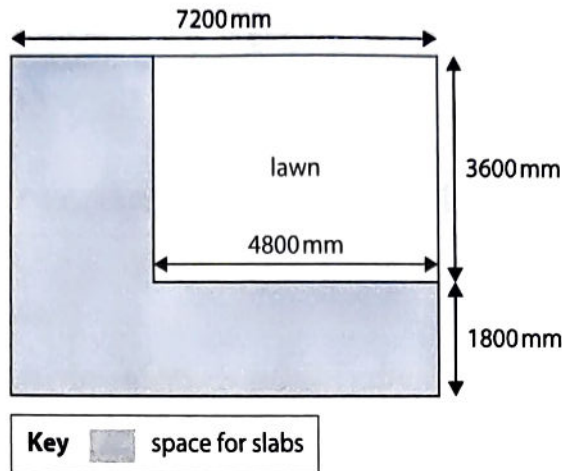
(3)

distance (miles)	tally	frequency
1 to 5		8
6 to 10		7
11 to 15		3
16 to 20		1
21 to 25		1

(Total for Question 5 is 3 marks)

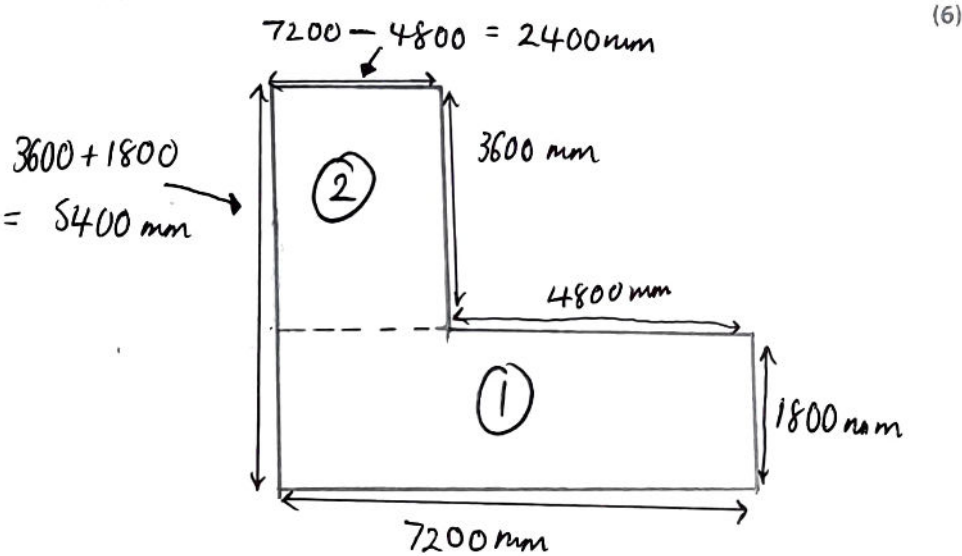


- 6 Maninder wants to put slabs in part of her garden.
She has this sketch.
All corners are right angles.



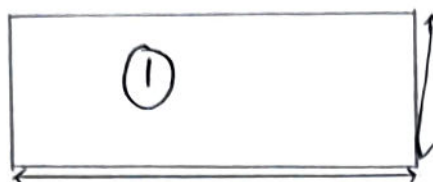
Each slab is in the shape of a square with sides of length 600 mm.
Maninder thinks she needs 65 slabs for this part of the garden.

Are 65 slabs enough for this part of the garden?
Show why you think this.



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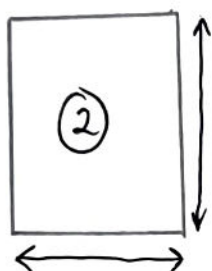
DO NOT WRITE IN THIS AREA



$$7200 \div 600 = 12 \text{ slabs}$$

$$1800 \text{ mm} \div 600 \text{ mm} = 3 \text{ slabs}$$

No. slabs needed for ①: $3 \times 12 = 36$ slabs



$$2400 \div 600 = 4 \text{ slabs}$$

$$3600 \div 600 = 6 \text{ slabs}$$

No. slabs needed for ②: $4 \times 6 = 24$ slabs.

Total no. slabs needed: $24 + 36 = 60$ slabs

Yes 65 slabs are enough.

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(Total for Question 6 is 6 marks)



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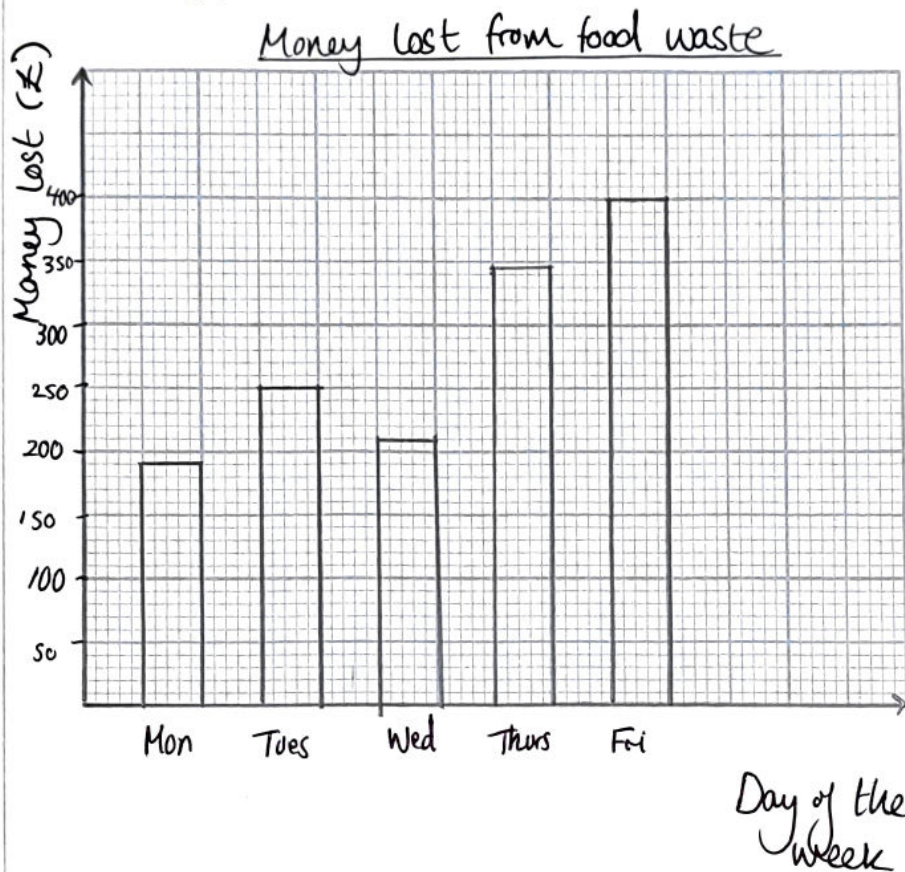
- 7 Graham is the manager of a fast food restaurant.

The table shows the amount of money lost due to food waste for five days.

	Mon	Tue	Wed	Thu	Fri
amount of money (£)	190	250	210	345	400

Graham wants to draw a graph to show the amount of money lost due to food waste.

Draw a suitable graph for Graham.



(Total for Question 7 is 3 marks)



8

(a) Write $1\frac{3}{4}$ as a percentage.

(1)

$$1\frac{3}{4} = 1 + \frac{3}{4}$$

\swarrow \searrow
 100% + 75%
 = 175%

175 %

(b) Write $1\frac{2}{3}$ as a decimal.

Give your answer correct to two decimal places.

(2)

$$1\frac{2}{3} = 1 + \frac{2}{3}$$

$$= 1 + 0.6666 \dots$$

$$= 1.6666 \dots$$

$$= 1.67$$

1.67

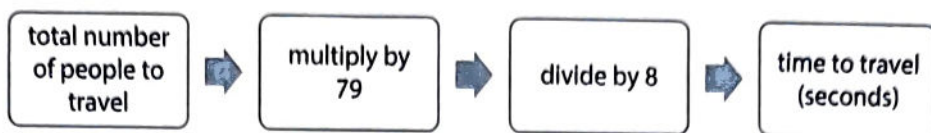
(Total for Question 8 is 3 marks)



- 9 Natasha is designing a building with a restaurant on the top floor.

She needs to know how long it will take for a total of 40 people to travel in the lift from the ground floor to the restaurant.

Natasha uses this formula.



Natasha thinks it will take more than 6 minutes for a total of 40 people to travel in the lift from the ground floor to the restaurant.

Is Natasha correct?
Show why you think this.

$$6 \text{ mins} = 6 \times 60 = 360 \text{ seconds.} \quad (4)$$

$$40 \rightarrow 40 \times 79 \rightarrow 3160 \div 8 \rightarrow 395 \text{ seconds}$$

$$= 3160 \quad = 395$$

Yes Natasha is correct as it will take 395 seconds which is more than 6 minutes (360 seconds).

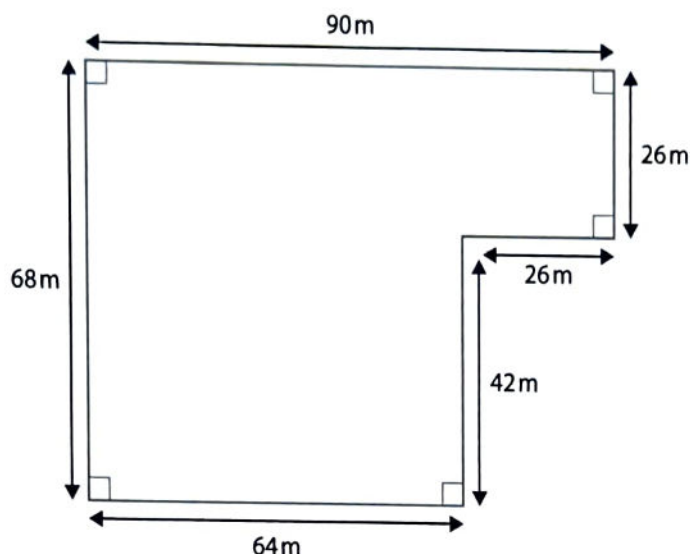
(Total for Question 9 is 4 marks)



10 George is a farmer.

He is going to put water piping along all the edges of a field.

George draws this sketch of the field



Water piping costs £0.59 per metre.

Calculate the total cost of the water piping George needs for this field.

(3)

Need to find the perimeter:

$$64 + 68 + 90 + 26 + 26 + 42 = 316 \text{ m}$$

$$\text{Total cost: } 316 \text{ m} \times 0.59 = £186.44$$

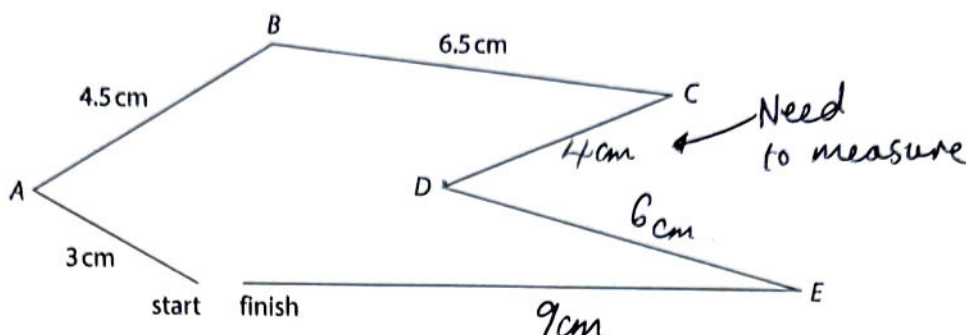
£ 186.44

(Total for Question 10 is 3 marks)



11 John is organising a charity sailing race on the sea.

He starts to draw this accurate scale map of the course.



Key 1 cm on the map is $\frac{1}{2}$ km on the sea

Sailors begin the race at the start and follow the course to the finish.

John says

"The course has a total distance of more than 18 km."

(a) Is John correct?

You **must** show your working.

(4)

Total distance on scale map:

$$3 + 4.5 + 6.5 + 4 + 6 + 9 = 33 \text{ cm}$$

$$1 \text{ cm on map} = \frac{1}{2} \text{ km on the sea}$$

$$33 \text{ cm on map} \xrightarrow{\div 2} 16.5 \text{ km on the sea}$$

No John is not correct as the course is 16.5 km long.



John writes a large cheque to be used for publicity.

John says

we have raised ninety seven thousand four hundred and three pounds for charity.

(b) Write this number on the cheque for John.

(1)

Cheque

DATE: _____

PAY: _____

ACCOUNT PAYEE ONLY

£ 97 403

FOR AND ON BEHALF OF

000124

27 85 86

85149663

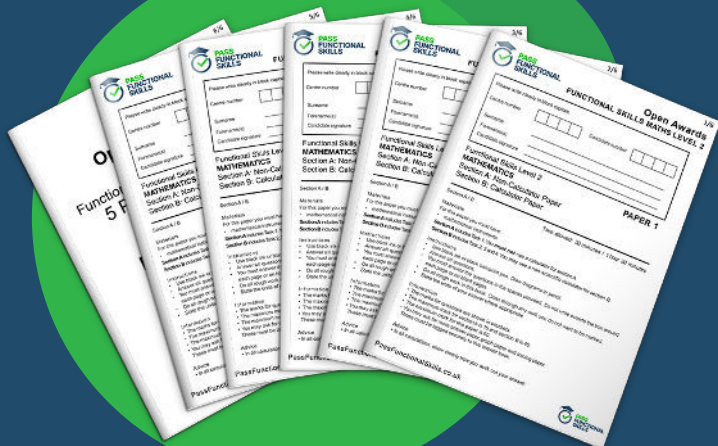
(Total for Question 11 is 5 marks)

TOTAL FOR SECTION B IS 42 MARKS
TOTAL FOR PAPER IS 56 MARKS

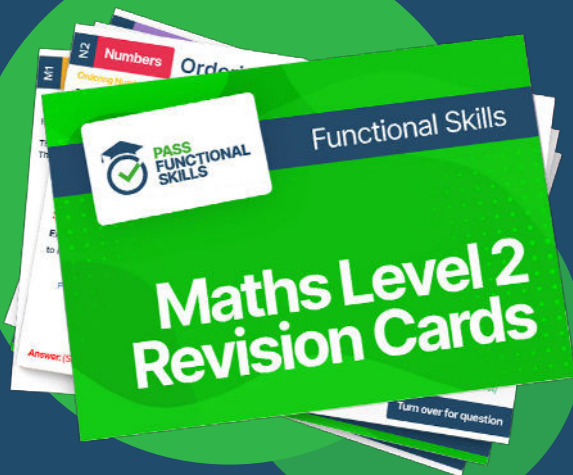




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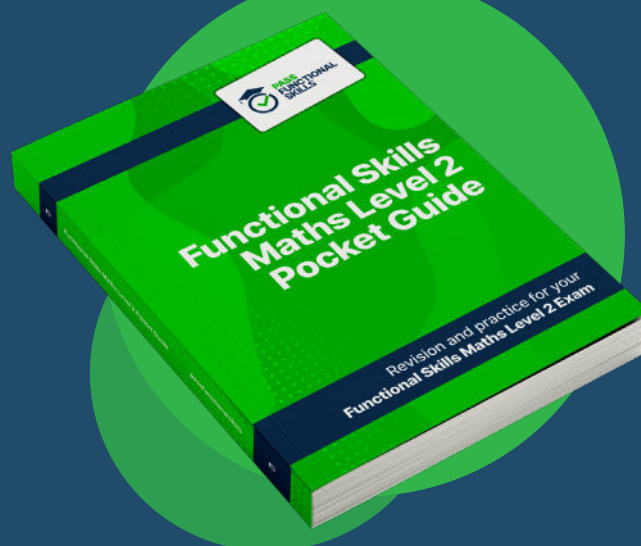
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