Candidate surname		Other	names
earson Edexcel unctional Skills	Centre Numbe	er	Candidate Number
***Past Pap	oer 3**	*	000
Time: 25 minutes	Paper	Referen	ce PMAT2/N03
Mathematics			V
Level 2			
Section A (Non-Calcu	lator)		
You must have: Pen, HB pencil, eraser, ruler gr pair of compasses. Tracing pa			protractor,

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 16.
- 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

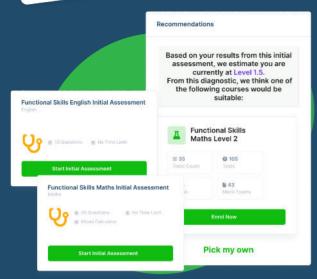
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FUNCTIONAL SKILLS ONLINE COURSES

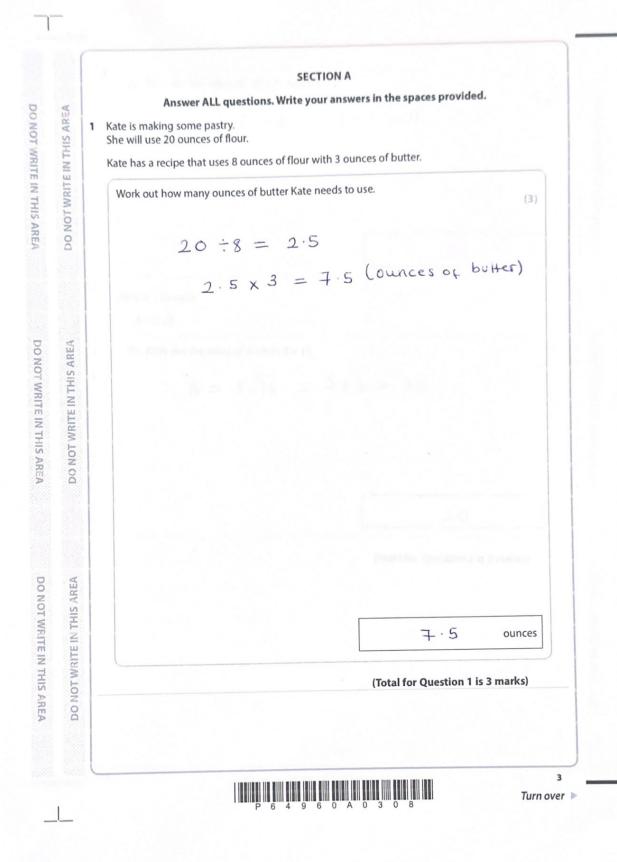


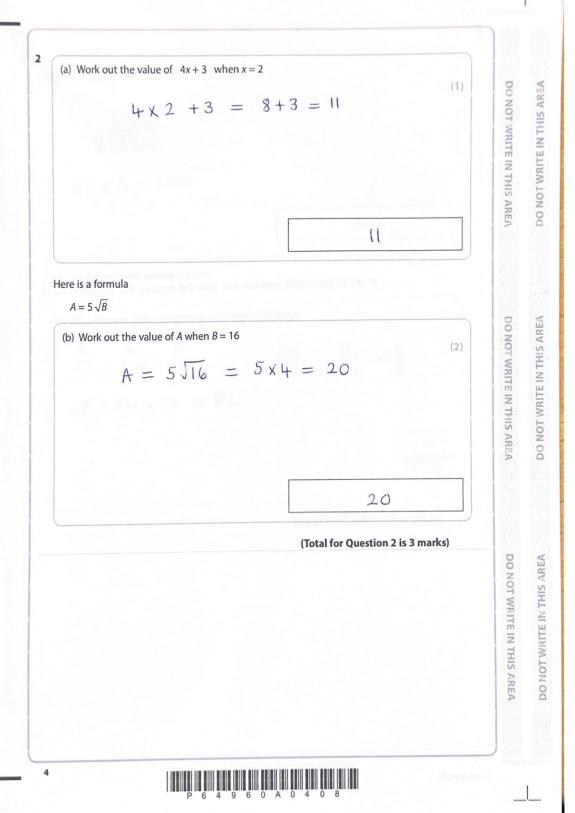
- Your answers are analysed to determine your Current Level
- Suggested courses for you to enrol on based on your calculated level
- Always know the level you are currently working at
- Determine when you are ready to sit your exam
- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions

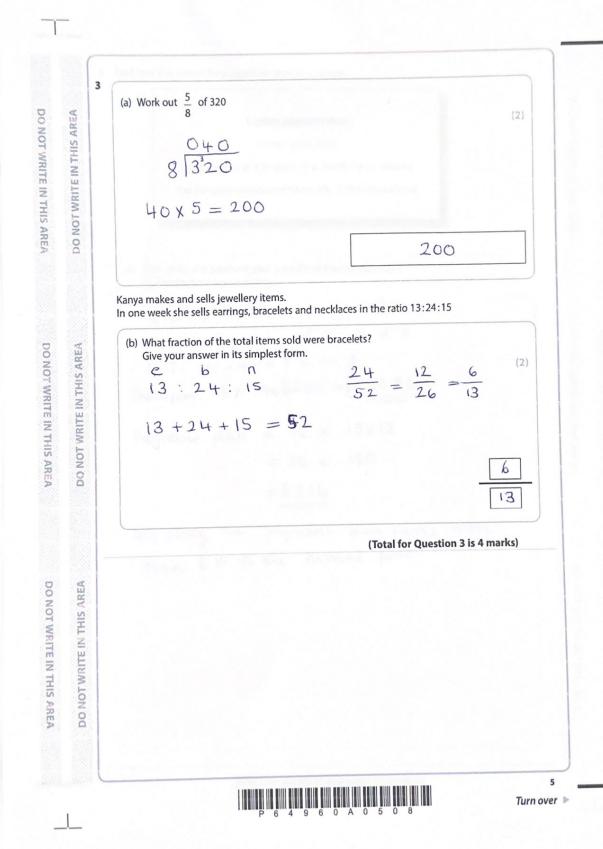




- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- ✓ View historical attempts to analyse your progress over time







Laptop payment plan

normal price £240

pay a deposit of £36 and £15 a month for 12 months use our payment plan and save 8% of the normal price

(a) Does using the payment plan save 8% of the normal price? You must show your working.

8% of 240: 10% = 24 1% = 2.4

8 % = 24-4.8 = 19.2 Therefore 8%, 07, 240 = £220.80

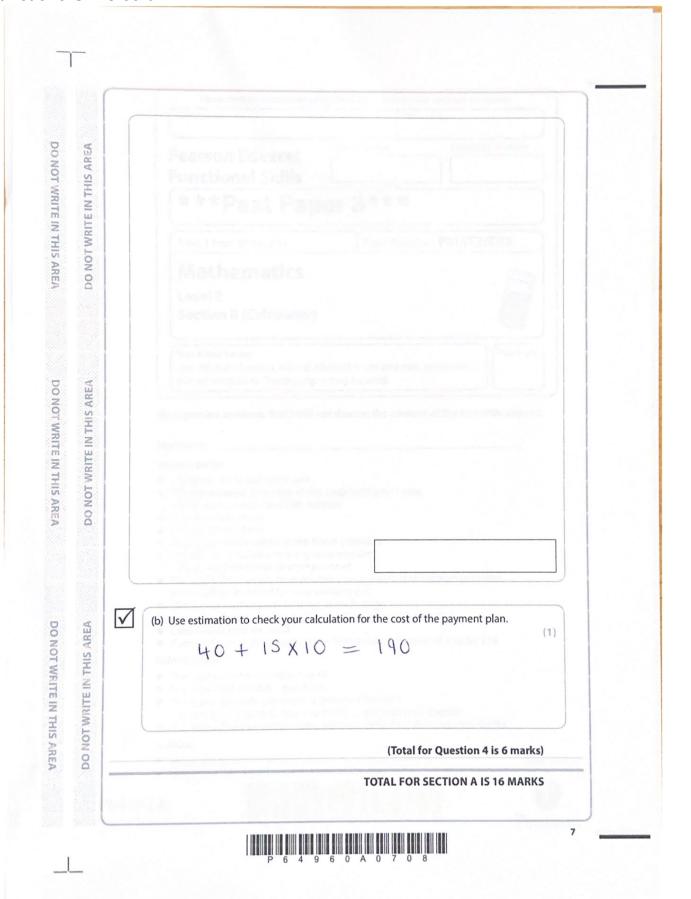
Payment plan = $36 + 15 \times 12$ = 36 + 180

NO, using the payment plan saves more than 8% of the normal price.

DO NOT WRITE IN THIS AREA

(5)

DO NOT WRITE IN THIS AREA



Candidate surname	Oti	her names		
Pearson Edexcel Functional Skills	Centre Number	Candidate Number		
Past Pa	per 3			
Time: 1 hour 30 minutes Paper		Paper Reference PMAT2/C03		
Mathematics Level 2 Section B (Calculator)			
		Total Mark		

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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 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 48.
- The total mark for this paper is 64.
- 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.

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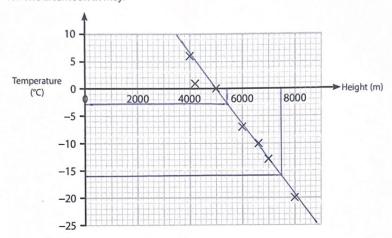
Turn over



SECTION B

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

1 The scatter diagram shows the temperature at different heights on Mount Everest for one afternoon in May.



(a) Describe the relationship shown in this scatter diagram.

Negative correlation

There are camps on Mount Everest.

Base camp A is at a height of 5400 m. Camp 3 is at a height of 7500 m.

(b) Use the scatter diagram to work out the difference in temperatures between the two camps.

$$-16 - (-3) = -13$$

13°C difference

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(1)

(2)

He wants to work out the total cost of the petrol he will use for travel next week.

Wesley knows

- he will drive a total of 520 miles
- his car uses 1 gallon of petrol per 28 miles
- petrol costs 128.4 pence per litre
- 1 gallon = 4.55 litres.

Wesley thinks the petrol he will use for travel next week will cost more than £100

Is Wesley correct?

Show why you think this.

520 = 28 = 18.57 gallons of petrol

18.57 x 4.55 = 84.5 htres

84.5 x = 1.284 = £108.50 (cost of petrol)

Yes, Hwill cost \$108.50

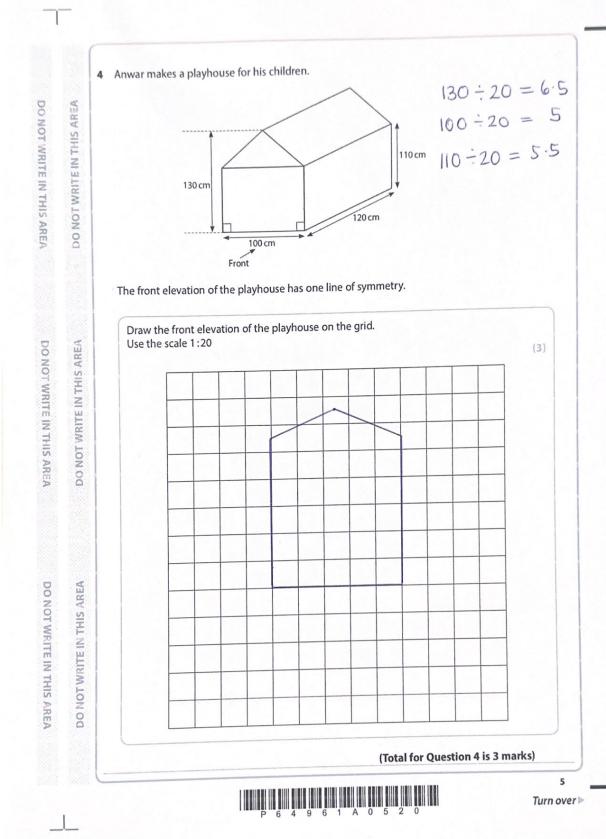
(Total for Question 3 is 4 marks)



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(4)

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These are the results.

Number of marks	Frequency	Midpoint	mxx
1 to 5	20	3	60
6 to 10	50	8	400
11 to 15	120	13	1560
16 to 20	60	18	1080
	250		3100

Mr Barker estimates the mean mark to be 12

(a) Is Mr Barker correct? Show why you think this.

mean $\approx 3100 \div 250 = 12.4$ Mr Barker is correct.

DO NOT WRITE IN THIS AREA

In the October test the lowest mark was 2 and the highest mark was 17

In November the same students took a similar test. The lowest mark was 5 and the highest mark was 18

Mr Barker wants to write a statement comparing the spread of marks in the two tests.

(b) Write a statement to compare the spread of marks in the two tests. You **must** show calculations to support your statement.

$$17 - 2 = 15$$

 $18 - 5 = 13$

The range in October was greater than in November, so the shows were less consistent.

(Total for Question 5 is 5 marks)



7 Turn over ▶ Mia thinks she sold 18% fewer ice Iollies in September than in August.

Did Mia sell 18% fewer ice Iollies in September than in August?

$$\frac{960 - 810}{960} \times 100 = \frac{15.625\%}{\text{fewer ice lotties}}$$

NO, 15.625% fewer were sold

DO NOT WRITE IN THIS AREA

(3)

DO NOT WRITE IN THIS AREA

(Total for Question 6 is 3 marks)



7 Alex has two sets of four cards. He writes a number on each card.

Alex picks one card from each set and multiplies the numbers to get a score.

The table shows some of the scores.

Card 1

	×	-5	7	-9	11
Card 2	2	-10	14	-18	22
	4	-20	28	-36	44
	-6	30	-42	54	-66
	8	-40	56	-72	88

(a) Complete the table.

(2)

Alex says,

'The probability that the score is negative is 0.5, which means there is a 5% chance that the score is negative.'

(b) Alex is incorrect. Explain why.

(1)

(1)

Alex picks one card from each set.

(c) What is the probability that the score is 14?

16

(Total for Question 7 is 4 marks)

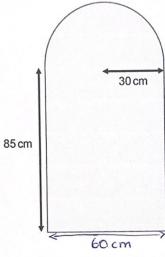


Turn over ▶

Abi has a mirror in the shape of a rectangle with a semicircle on one of the shorter edges.

The radius of the semicircle is 30 cm.

The longer edge of the rectangle is 85 cm.



Abi buys a 500 cm length of mirror trim to go around all the edges of the mirror.

She thinks she will use more than $\frac{2}{3}$ of the length of the mirror trim.

Is Abi correct?

Show why you think this.

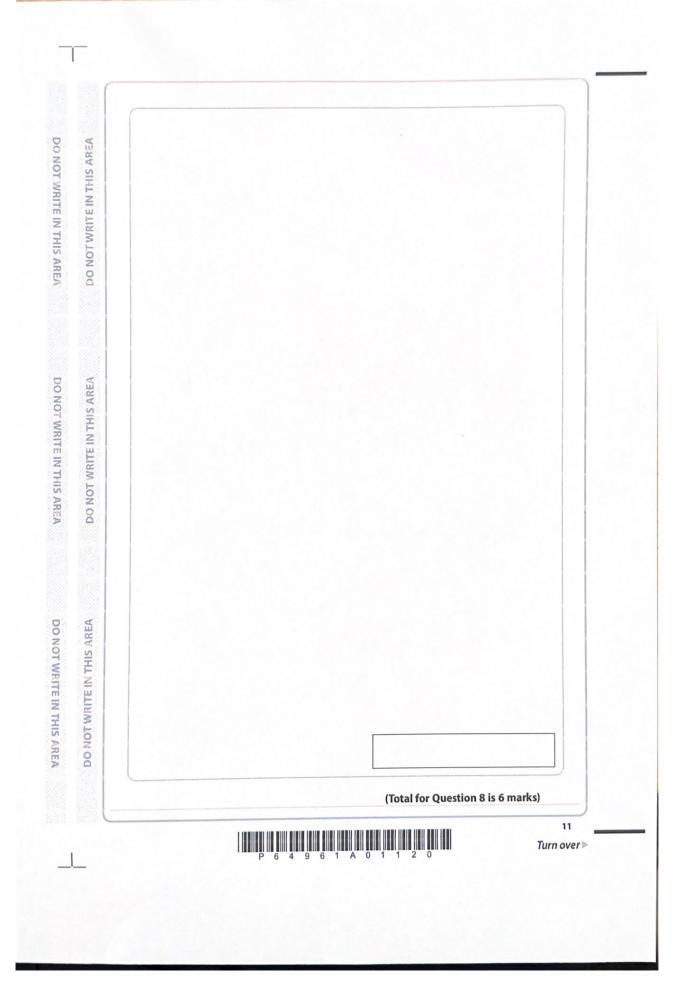
curred section:
$$\frac{1}{2} \times 3.14 \times 60 = 94.7$$

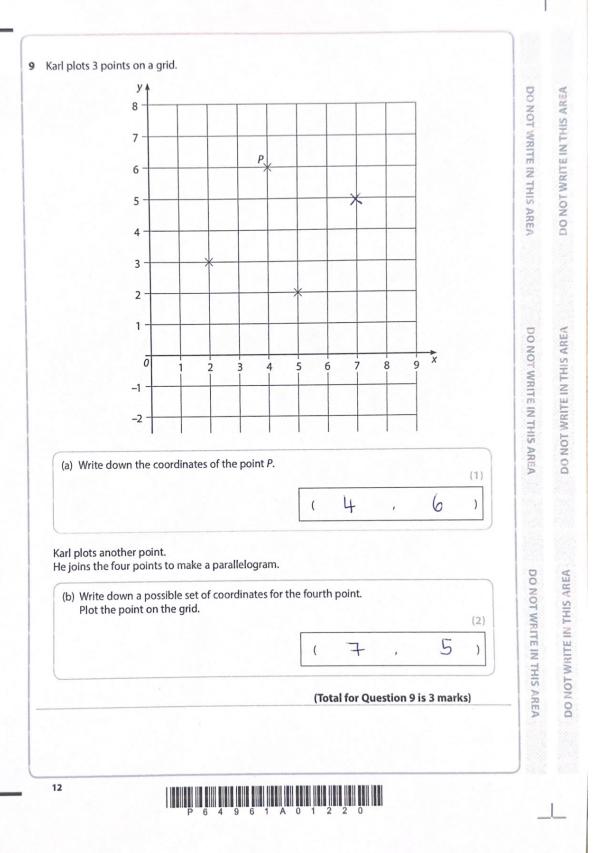
$$= 324.2$$

$$\frac{324.2}{3} = 0.6484 < \frac{2}{3} \left(\frac{2}{3} \text{ of } 500 \approx 333.3 \right)$$

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA





Turn over

DO NOT WRITE IN THIS AREA

(5)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

11 Gavin is a car salesman.

The table shows the number of cars he sold in one week.

Mon	Tue	Wed	Thu	Fri	Sat
2	0	1	4	1	2

The cost of each car is £20950

For every car Gavin sells he earns

- · 1.25% of the cost of the car in commission
- a bonus of £50

Work out the median amount Gavin earned per day for this week.

) | | 1

median = 1.5 cars

1.5 x 20950 = 31425

0.0125 x 31425 = 392.8125 (commission)

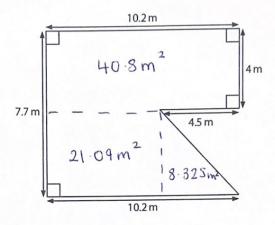
1.5 x 50 = 75 (bonus)

$$392.8125 + 75 = 2467.81$$





This is a plan of the floor of the restaurant.



Maninder will buy the tiles in packs. Each pack covers an area of 0.945 m² One pack of tiles costs £16.15

Tiles can be cut and joined.

Work out the total cost of the packs of tiles Maninder will buy.

$$10.2 \times 4 = 40.8 \,\mathrm{m}^2$$

$$(7.7-4) \times (10.2-4.5) = 21.09 \text{ m}^2$$

 $\frac{1}{2} \times 4.5 \times 3.7 = 8.325 \text{ m}^2$

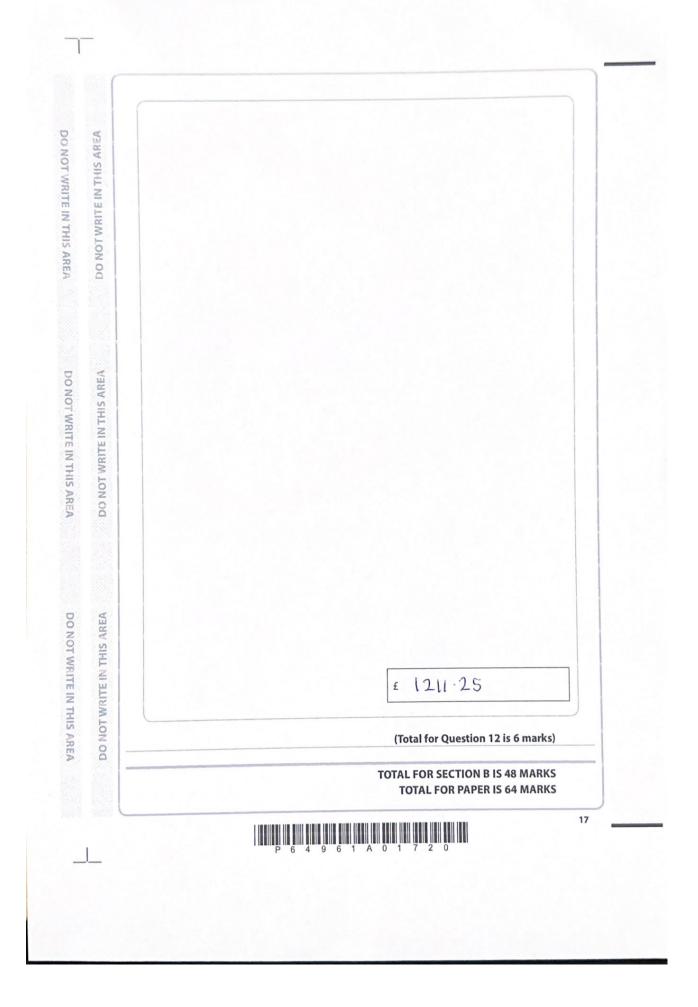
$$\frac{1}{2} \times 4.5 \times 3.7 = 8.325 \,\mathrm{m}^2$$

Area =
$$40.8 + 21.09 + 8.325 = 70.215$$

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

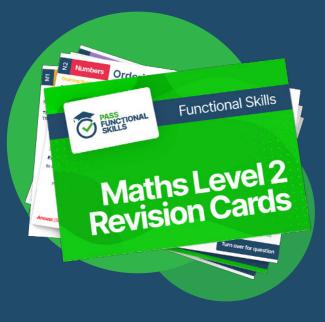
(6)







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