

Please check the examination details below before entering your candidate information		
Candidate surname	Other names	
Pearson Edexcel Functional Skills	Centre Number	Candidate Number
	<input type="text"/>	<input type="text"/>
Past Paper 3		
Time: 25 minutes	Paper Reference PMAT1/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
<input type="text"/>		<input type="text"/>

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- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
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- 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 your 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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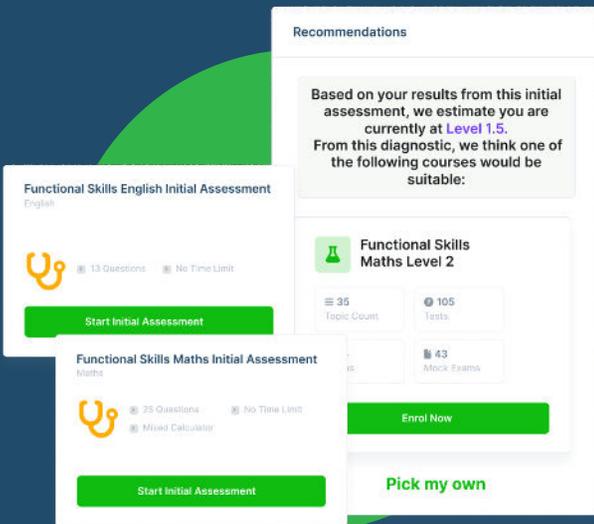
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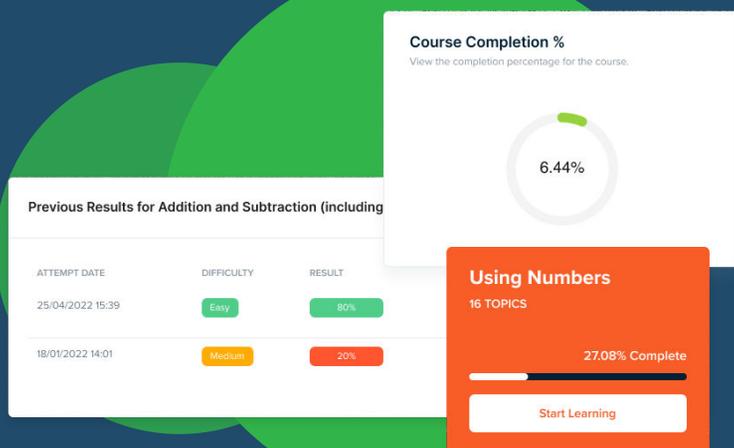
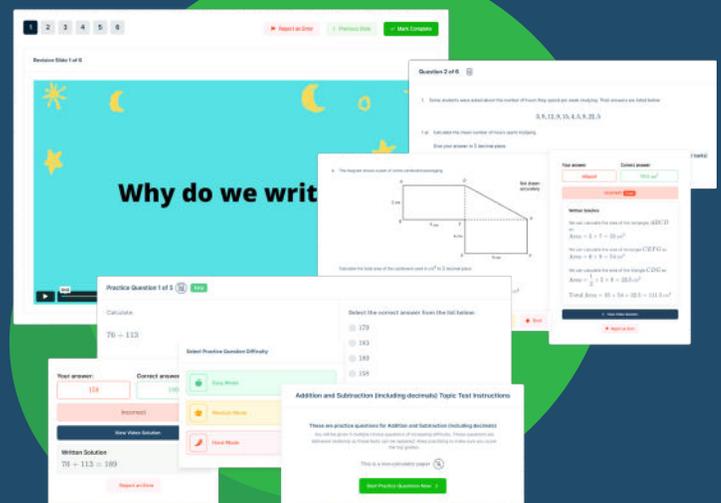


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SECTION A

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

- 1 Marli travels to college by bus.
She has this information about ticket prices.

ticket prices	
daily ticket	£3.40
weekly ticket	£12
monthly ticket	£54

Marli will travel to college 4 days next week.
She buys a weekly ticket instead of 4 daily tickets.

How much money does Marli save in total?
You **must** show your working.

(3)

$$3.4 \times 4 = 13.6$$

$$13.6 - 12 = 1.6$$

£ 1.60

(Total for Question 1 is 3 marks)



DO NOT WRITE IN THIS AREA

2 Here is a set of data.

14.3	17.2	9.4	15.6	19.5
------	------	-----	------	------

(a) Calculate the range of this set of data.

(2)

$$19.5 - 9.4 = 10.1$$

10.1



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

(1)

$$20 - 9 = 11$$

(Total for Question 2 is 3 marks)



3

Turn over ▶

- 3 Lee works in a garage.
He has these jobs to do on Tuesday

- service 1.5 hours
- oil change $\frac{3}{4}$ hour
- replace headlight 20 minutes.

Lee will start the first job on the list at 9 am.
He will have a break of half an hour after the first two jobs.

Lee thinks he will finish the last job before 1 pm.

Will Lee finish the last job before 1 pm?

(4)

$$\begin{aligned}
 &1.5 \text{ hours after } 9 \text{ am} = 10:30 \text{ am} \\
 &+ \text{ ~~break~~ } \frac{3}{4} \text{ hour (45 mins)} = 11:15 \text{ am} \\
 &+ \text{ half hour break} = \text{ ~~12:15 pm~~ } 11:45 \text{ am} \\
 &+ 20 \text{ mins} = \underline{\underline{12:05 \text{ pm}}}
 \end{aligned}$$

Yes

(Total for Question 3 is 4 marks)

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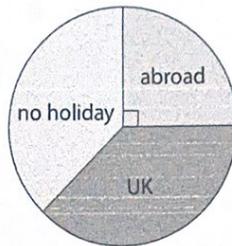
4 Place the correct number in the space to complete the sentence.

(a) Angles around a point add up to 360 degrees.

(1)

Shelley reads an article about holidays in 2018
She sees this pie chart.

holidays in 2018



The pie chart shows where 1800 people went on holiday in 2018

Shelley thinks that 540 of these people went abroad on holiday.

(b) Is Shelley correct?
Show why you think this.

(3)

$\frac{1}{4}$ of people went abroad

$$1800 \div 4 = \underline{\underline{450}} \text{ people}$$

NO

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS



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Past Paper 3			
Time: 1 hour 30 minutes		Paper Reference PMAT1/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
			<input type="text"/>

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- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have 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.*
- This sign shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
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Turn over ►

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SECTION B

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

- 1 Charlie is a florist.
He cuts lengths of ribbon to go around vases.
Each length of ribbon must be 70 cm.
Charlie has a roll of ribbon which is 15 metres in length.

How many 70 cm lengths of ribbon can Charlie cut from the roll?

(3)

$$15 \text{ m} = 1500 \text{ cm}$$

$$1500 \div 70 = 21.42 \dots$$

So 21 ribbons

21

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

2

(a) Write 1.07 litres in millilitres.

(1)

1070

ml

Alex buys vegetarian pies and chicken pies for a party.
He buys 164 pies in total.

Alex buys vegetarian pies and chicken pies in the ratio 3 : 1

(b) Work out the number of vegetarian pies Alex buys.

(3)

$$164 \div (3+1) = 41$$

$$41 \times 3 = 123$$

123

(Total for Question 2 is 4 marks)



3

Turn over ▶

3

(a) Write 60% as a fraction in its simplest form. (1)

$$60\% = \frac{60}{100} = \frac{6}{10} = \frac{3}{5}$$

3
5

Lou plans to go to a beauty salon.

She sees this special offer.

treatments	
facial	£31
leg wax	£29
massage	£35
manicure	£27
eyelash tint	£13

book any 3 treatments get 25% off the total cost

Lou wants to book a massage and 2 other different treatments.

She has £60 to spend on the treatments.

(b) Work out the total cost of the 3 treatments using the special offer for Lou. Remember to write down the 3 treatments. (4)

~~35 + 13 + 27 = 75~~

$$35 + 13 + 27 = 75$$

$$0.75 \times 75 = 56.25$$

~~35 + 13 + 27 =~~

massage
eyelash tint
manicure

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4



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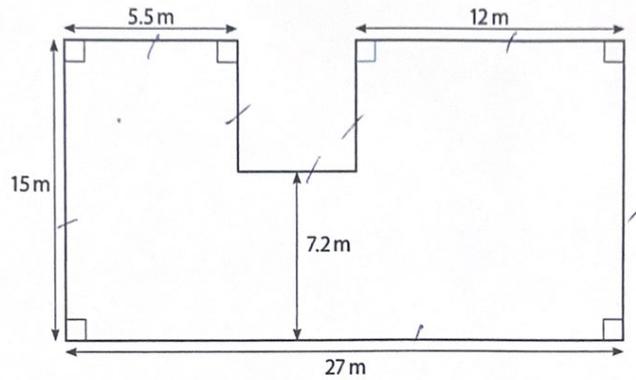
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£ 56.25

(Total for Question 3 is 5 marks)



- 4 Here is a shape.
The shape is made up of 3 rectangles.



Work out the perimeter of this shape.

(3)

$$27 - 5.5 - 12 = 9.5 \text{ m}$$

$$15 - 7.2 = 7.8 \text{ m}$$

$$\begin{aligned} \text{Perimeter} &= 15 + 5.5 + 7.8 + 9.5 + 7.8 + 12 \\ &\quad + 15 + 27 = 99.6 \text{ m} \end{aligned}$$

99.6 m

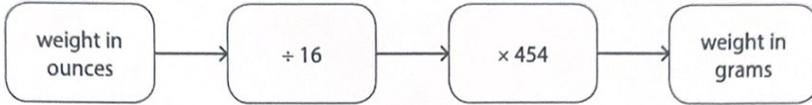
(Total for Question 4 is 3 marks)

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5 Here is a formula.



Use the formula to convert 12 ounces to grams.

(3)

$$12 \div 16 = 0.75$$

$$0.75 \times 454 = 340.5$$

grams

(Total for Question 5 is 3 marks)



- 6 Jilly works at a school.
She is going to make a vegetable patch in a field at the school.

The vegetable patch will

- have an area of 24 m^2
- be rectangular in shape
- be at least 2 m away from each edge of the field.

Jilly will put fencing around the vegetable patch.
Fencing can be cut and joined.

Jilly has 5 lengths of the fencing.
Each length of the fencing is 5 m long.

Does Jilly have enough fencing to go along each side of the vegetable patch?
You **must** draw the space for the vegetable patch on the grid opposite.

(6)

$$\text{fencing } 5 \times 5 = \underline{\underline{25 \text{ m}}}$$

$$\text{Perimeter of patch} = 6 + 6 + 4 + 4 = \underline{\underline{20 \text{ m}}}$$

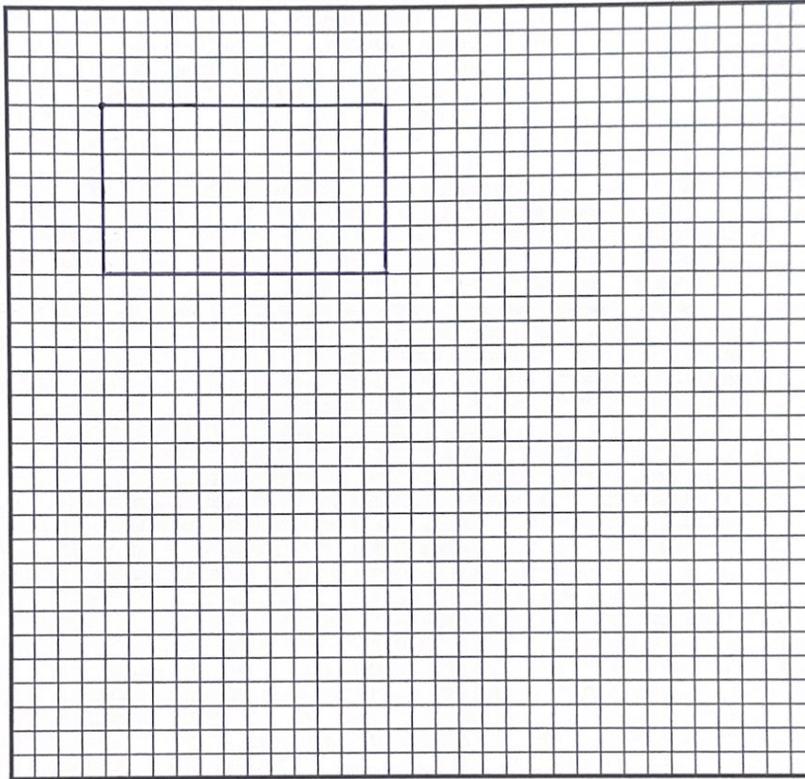
Yes Jilly will have enough fencing.

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DO NOT WRITE IN THIS AREA

The grid shows a plan of the field.



Key 1 small square length on the grid represents 0.5 m in the field
— edge of the field

(Total for Question 6 is 6 marks)



7

- (a) Write the following numbers in order of size.
Start with the smallest number.

0.102 0.04 0.2

(1)

0.04, 0.102, 0.2

- (b) Round 178.146 correct to 2 decimal places.

(1)

178.15

- (c) How many minutes are there in one and a quarter hours?

(1)

75 minutes

(Total for Question 7 is 3 marks)

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10



P 6 4 9 5 9 A 0 1 0 1 6

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- 8 Pierre is a teacher.
There are 13 boys and 17 girls in his class.

Pierre chooses one of these students at random for a presentation.

- (a) Work out the probability this student is a boy.

(2)

$$13 + 17 = 30$$

$$\frac{13}{30}$$

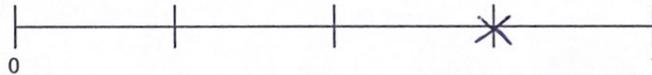
Pierre travels to work on the train.
He records whether the train is on time or late.

These are his results after 20 train journeys

- on time 15 days
- late 5 days.

- (b) Mark with a cross (X) the probability the train is on time on the scale.

(1)



(Total for Question 8 is 3 marks)



- 9 Juliet wants to check her gas bill.
She has this information.

month	May	June	July	August	September	October
units used	430	276	205	168	261	565

Juliet thinks the mean number of units she used for the 6 months was more than 300

- (a) Is Juliet correct?
Show why you think this.

$$430 + 276 + 205 + 168 + 261 + 565 = 1905 \quad (3)$$

$$1905 \div 6 = \underline{\underline{317.5}} > 300$$

Juliet is correct



- (b) Use a reverse calculation to show a check of your mean. (1)

$$317.5 \times 6 = 1905$$

(Total for Question 9 is 4 marks)

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- 10 Magda owns a music venue.
She has this information about the people who attended a recent show.

age (years)	men	women
18 to 35	142	86
36 or older	175	27

Magda says,

'About a quarter of the people were women aged between 18 and 35'

Is Magda correct?
Show why you think this.

(3)

$$\text{Total} = 142 + 86 + 175 + 27 = 430$$

$$\frac{1}{4} \text{ of } 430 = 107.5$$

86 people were women aged between 18 and 35, which is not close to 107.5.

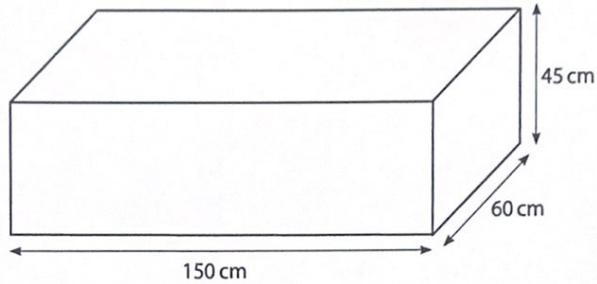
Magda is not correct.

(Total for Question 10 is 3 marks)



- 11 Nick is a farmer.
He has a tank for water.

The tank is in the shape of a cuboid.



The tank is $\frac{2}{3}$ full of water.

Nick knows that $1000 \text{ cm}^3 = 1 \text{ litre}$.

Work out how many litres of water are in the tank.

$$150 \times 60 \times 45 = 405000 \text{ cm}^3 \text{ (volume)} \quad (5)$$

$$405000 \div 1000 = 405 \text{ litres}$$

$$\frac{2}{3} \times 405 = 270 \text{ litres}$$

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270 litres

(Total for Question 11 is 5 marks)

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





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