

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 6			
Time: 25 minutes		Paper Reference PMAT1/N06	
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"/>

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

Signature: _____

Instructions

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- 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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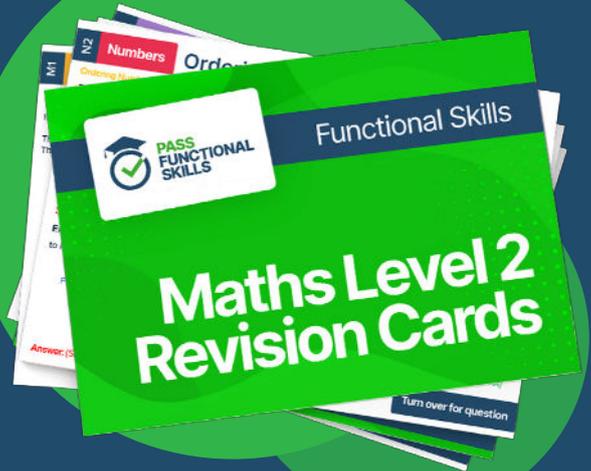

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SECTION A

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

- 1 Kate uses a machine to make toys.

She makes

- 800 toys in one hour
- toys for 6 hours each day.

Kate checks 5% of the toys she makes in a day for any faults.

How many toys does Kate check in a day?

(3)

$$800 \times 6 = 4800$$

$$5\% = 0.05$$

$$0.05 \times 4800 = 240$$

$$\text{OR } 4800 \times \frac{5}{100} = 240$$

240 toys

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA

2

(a) Write 0.3 as a fraction.

(1)

$$\frac{3}{10}$$

(b) Work out 1.6×1000

(1)

$$1600$$

(c) Write 19.075 correct to 1 decimal place.

(1)

$$19.1$$

(Total for Question 2 is 3 marks)

3

(a) Work out $\frac{(17-3)}{2} + 4^2$ (3)

$$17 - 3 = 14$$

$$\frac{14}{2} = 7$$

$$4^2 = 16$$

$$7 + 16 = 23$$



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

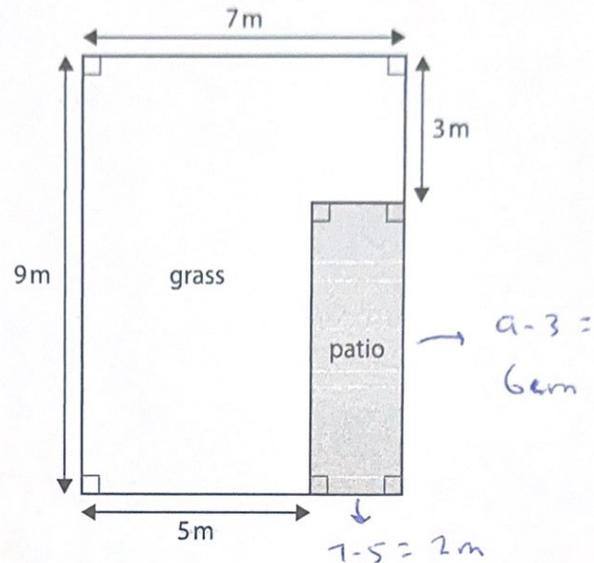
$$23 - 7 = 16$$

(Total for Question 3 is 4 marks)

DO NOT WRITE IN THIS AREA

- 4 Rupert is a gardener.

He wants to put grass in the space shown in the diagram.



Work out the area of the space for the grass.

(4)

$$\text{Area of total: } 9 \times 7 = 63 \text{ m}^2$$

$$\text{Area of Patio: } 6 \times 2 = 12 \text{ m}^2$$

$$\text{Area of grass: } 63 - 12 = 51 \text{ m}^2$$

51 m²

(Total for Question 4 is 4 marks)

TOTAL FOR SECTION A IS 14 MARKS

Please check the examination details below before entering your candidate information

Candidate surname		Other names	
Pearson Edexcel Functional Skills		Centre Number	Candidate Number
Past Paper 6			
Time: 1 hour 30 minutes		Paper Reference PMAT1/C06	
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

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

Signature: _____

Instructions

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- 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 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.
- Check your answers if you have time at the end.

Turn over ►

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SECTION B

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

- 1 Alan takes part in a health study.

He records the time he spends looking at different screens on Monday.

computer	5.5 hours
mobile phone	40 minutes
TV	$3\frac{3}{4}$ hours

Alan thinks he spent more than 10 hours in total looking at different screens on Monday.

Is Alan correct?

Show why you think this.

$$5.5 \text{ hours} = 5 \text{ hours and } 30 \text{ minutes}$$

(3)

$$3\frac{3}{4} \text{ hours} = 3 \text{ hours and } 45 \text{ minutes}$$

$$\text{total: } 5 \text{ hours} + 3 \text{ hours} = 8 \text{ hours}$$

$$30 \text{ minutes} + 45 \text{ minutes} + 40 \text{ minutes}$$

$$= 1 \text{ hour and } 55 \text{ minutes}$$

$$9 \text{ hours and } 55 \text{ minutes overall}$$

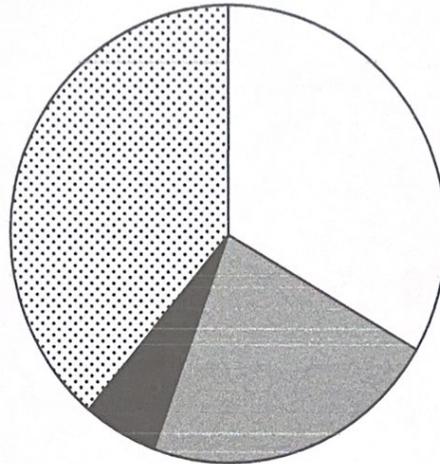
9h 55m

(Total for Question 1 is 3 marks)

DO NOT WRITE IN THIS AREA

- 2 Sarah sees this poster about results of a survey about favourite meals in the school canteen.

Favourite meals of 180 students



fish

pasta

lamb

chicken

She decides to write a comment about the results on social media.

How many students chose fish as their favourite meal?
You **must** show all your working.

(4)

Fish - 120°

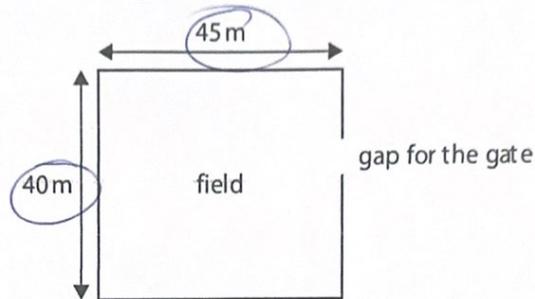
$$\frac{120}{360} \times 180 = \frac{1}{3} \times 180 = 60$$

60 students

(Total for Question 2 is 4 marks)

- 3 Patrick needs to put fence panels around a field.

The field is in the shape of a rectangle.



Patrick will leave a gap of 260 cm for a gate.

Each fence panel is 1.8m long.

Patrick can cut and join the fence panels.

Work out the total number of fence panels Patrick needs to put around this field.

(5)

$$260 \text{ cm} = 2.6 \text{ m}$$

$$\text{Perimeter of Field} = 45 + 40 + 45 + 40 = 170 \text{ m}$$

$$170 - 2.6 = 167.4 \text{ m}$$

$$167.4 \div 1.8 = 93$$

DO NOT WRITE IN THIS AREA

93 fence panels

(Total for Question 3 is 5 marks)

- 4 Varna works in a bookshop.

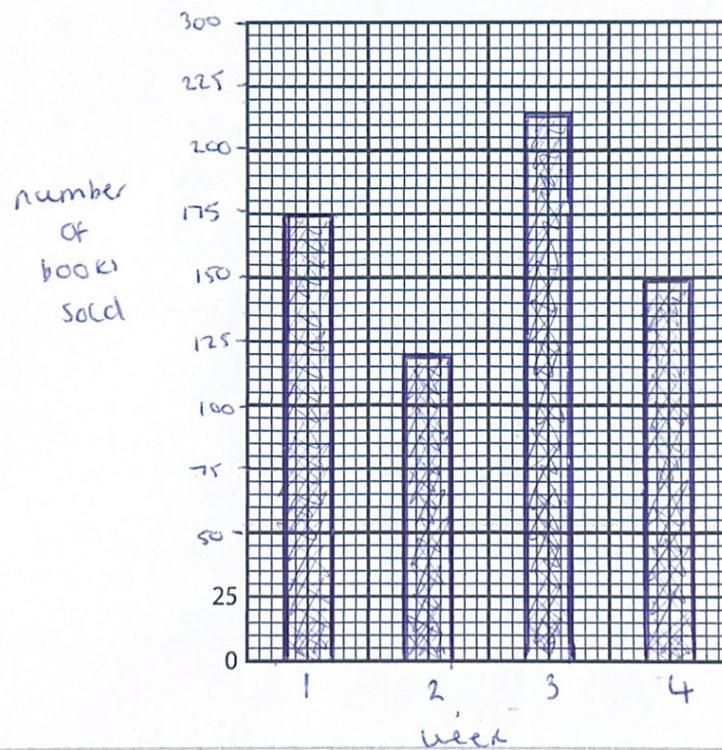
The table shows the number of books she sold in the last four weeks.

week	1	2	3	4
number of books sold	175	120	215	150

Varna begins to show this information in a chart.

On the grid, complete a suitable chart for Varna.

(3)



(Total for Question 4 is 3 marks)

DO NOT WRITE IN THIS AREA

5 Joe sells cars.

He sold 840 cars last year.

720 of these cars were petrol cars.

All the other cars he sold were electric cars.

Joe writes a report for his manager.

He states,

"I sold 6 times as many petrol cars as electric cars last year."

Is this statement correct?

You **must** show your working.

(3)

$$\text{electric} = 840 - 720 = 120$$

$$120 \times 6 = 720$$

Yes

(Total for Question 5 is 3 marks)

6 Raphael owns a barber shop.

The table shows the number of customers who had a haircut last week at the shop.

Mon	Tue	Wed	Thu	Fri	Sat	Sun
58	64	49	73	89	96	103

The price of a haircut was £8

Next week Raphael will

- increase the price of a haircut by 25%
- have the same mean daily number of customers.

Raphael thinks his mean daily income next week will be more than £750

Is Raphael correct?
Show why you think this.

(6)

$$58 + 64 + 49 + 73 + 89 + 96 + 103 = 532$$

$$532 \div 7 = 76$$

~~76~~

$$25\% = 0.25$$

$$100\% + 25\% = 1.25$$

$$8 \times 1.25 = £10 \text{ (new price of hair cut)}$$

$$76 \times 10 = £760$$

7

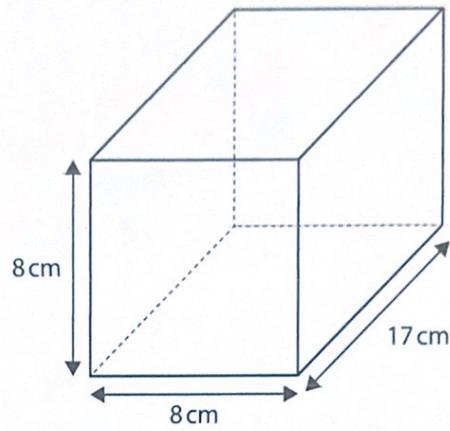
DO NOT WRITE IN THIS AREA

Large empty rectangular box for writing the answer.

Yes

(Total for Question 6 is 6 marks)

7 Here is a cuboid.



Calculate the volume of the cuboid.
Remember to give units with your answer.

(3)

$$8 \times 8 \times 17 = 1088$$

$$1088 \text{ cm}^3$$

(Total for Question 7 is 3 marks)

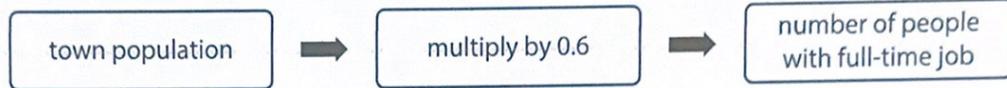
DO NOT WRITE IN THIS AREA

- 8 Anju works at a town hall.

470,015

The town population is four hundred and seventy thousand and fifteen.

Anju uses this rule to work out how many people in the town have a full-time job.



Anju thinks 272019 people in the town have a full-time job.

Is Anju correct?
Show why you think this.

(3)

$$470015 \times 0.6 = 282009$$

No

(Total for Question 8 is 3 marks)

9 Wesley is planning his new bathroom.
He will put a bath and a sink in the bathroom.

The bath needs

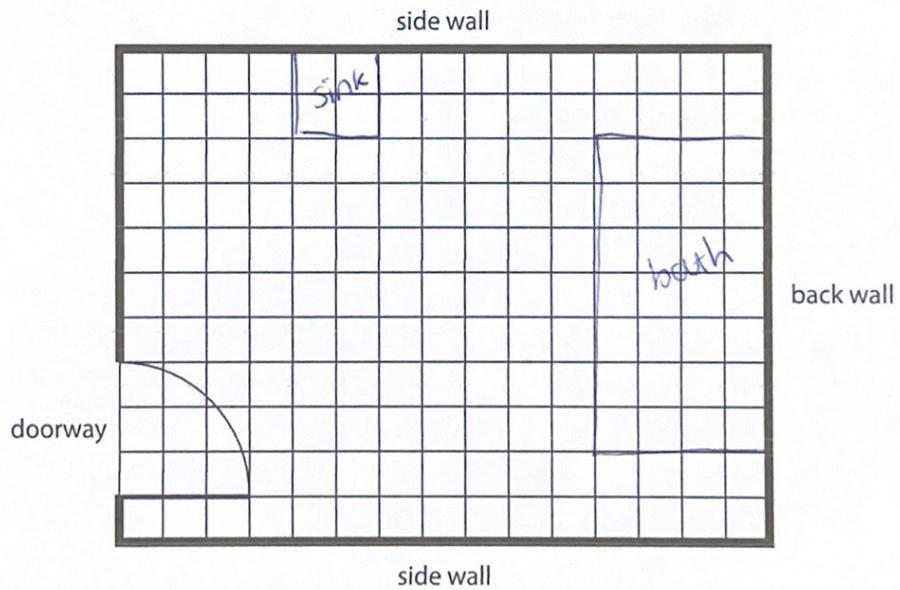
- a rectangular space 1.75 m by 1 m
- to be against the back wall
- to be an equal distance from both side walls.

The sink needs

- a square space 0.5 m by 0.5 m
- to be against a side wall
- to be at least 1 m from the bath
- to be at least 1 m from the doorway

Show a space for the bath and a space for the sink on the grid.
Remember to use the scale and label each item.

(4)



Key

1 square on the grid is 0.25 m by 0.25 m in the bathroom

(Total for Question 9 is 4 marks)

DO NOT WRITE IN THIS AREA

10 Here are some numbers.

27.5 -17.3 63.1 4.6 -42.4 39.8 -9.7 58.6

(a) Work out the range of these numbers.

(2)

$$63.1 - -42.4 = 105.5$$

105.5



(b) Show a check of your answer.

(1)

$$105.5 - 63.1 = 42.4$$

(Total for Question 10 is 3 marks)

- 11 Charly is organising a party.
She needs to buy 90 party plates.

She finds this offer.

x15

pack of 6 plates
normal price £3.55
now $\frac{1}{5}$ off the normal price

Charly has £45 to spend on the plates.

Does Charly have enough money to buy 90 plates?
Show why you think this.

(5)

$$90 \div 6 = 15$$

$$3.55 \times 15 = 53.25$$

$$\frac{1}{5} \text{ of } 53.25 = 10.65$$

$$53.25 - 10.65 = \del{42.60} 42.60$$

DO NOT WRITE IN THIS AREA

Yes

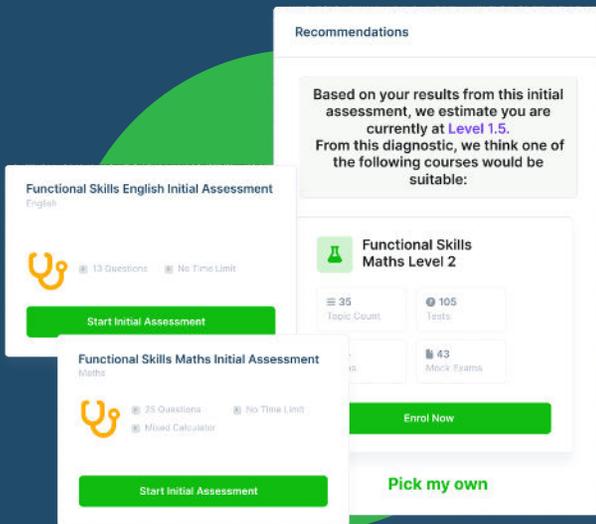
(Total for Question 11 is 5 marks)

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

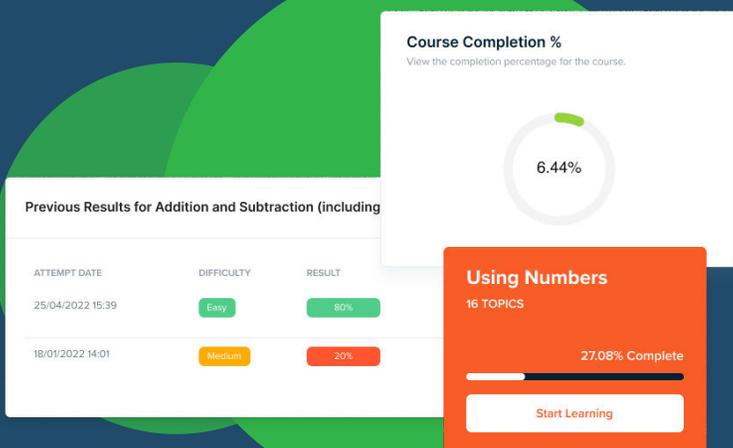
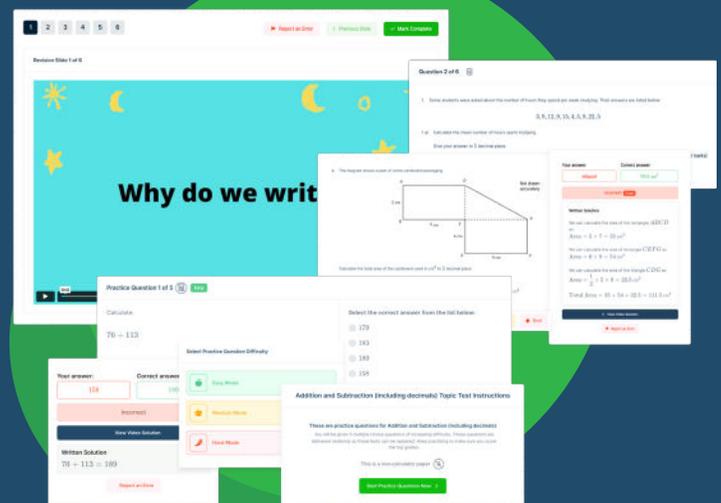


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