

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

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#### 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 your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- Calculators may not be used.
- Take the value of  $\pi$  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  $\checkmark$  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.











### P 6 4 9 5 0 A 0 2 0 8

**2** Aaron is building a brick wall.

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The wall will need 1025 bricks. The weight of each brick is 2.89 kg.

Aaron will pay a delivery charge if the total weight of the bricks is over 2500 kg.

Use estimation to work out if you think Aaron will need to pay the delivery charge. You **must** show your working.

(3)

(Total for Question 2 is 3 marks)



3

(a) Calculate the perimeter of the field.	(2)
	m
ie farmer is buying fence panels. e needs a total length of 200 m of fence panels.	
ach fence panel is 2.5 m in length. (b) Work out how many fence panels the farmer will need to buy.	(2)
ch fence panel is 2.5 m in length. (b) Work out how many fence panels the farmer will need to buy.	(2)

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4 Saira is buying a new car. She will keep the car for 5 years.

Saira has this information.

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**Diesel car** Buying price £29515

Average running cost £1200 each year **Petrol car** Buying price £26775

Average total running cost £8000 for 5 years

Saira wants to see whether a diesel car or a petrol car is better value for the 5 years.

Which type of car is better value? Show why you think this.

(4)

(Total for Question 4 is 4 marks)

**TOTAL FOR SECTION A IS 14 MARKS** 



### P 6 4 9 5 0 A 0 6 0 8

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Please check the examination d	etails below	before ente	ering your can	didate information
Candidate surname			Other name	25
Pearson Edexcel Functional Skills	Centre	e Number		Candidate Number
(***Past Pape	er 1*	***		
Time: 1 hour 30 minutes		Paper R	eference <b>F</b>	PMAT1/C01
Mathematics Level 1 Section B (Calculator)	)			
You must have: Pen, calculator, HB pencil, eras protractor, pair of compasses.	er, ruler g Tracing p	raduated aper may	in cm and be used.	l mm,

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- If your calculator does not have  $\pi$  button take the value of  $\pi$  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  $\checkmark$  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 🕨



whan works in a cafe. ne morning he sells 48 cups of tea and 12 cups of coffee. (a) Write down the ratio of the number of cups of tea to the number of cups of coffee. Write your answer in its simplest form. (2)
<ul> <li>(a) Write down the ratio of the number of cups of tea to the number of cups of coffee. Write your answer in its simplest form.</li> <li>(2)</li> </ul>
customer buys four cups of tea. Than puts sugar in two of the cups of tea. The customer picks one cup at random. (b) What is the likelihood that the customer picks a cup of tea with sugar?
(1)
[] even chance
[] likely
[ ] certain
(Total for Question 1 is 3 marks)

2 Sam is a manager in an office. She wants to buy 14 new chairs.

> Each chair costs £73 Sam will also be charged 20% VAT on the cost of the chairs.

Sam has £1200 to buy the chairs.

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Is £1200 enough to buy the 14 chairs?

(4)

(Total for Question 2 is 4 marks)



3





Kayla is covering the garden with grass seed. She will not put any grass seed in the pond.

One box of grass seed covers  $15 \, m^2$  of garden.

Work out the number of boxes of grass seed Kayla needs to cover the garden.

(5)

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temperature (°C)	ultiply by 1.8	add 32	ten	nperature (°F)	
ave thinks the temperature	in Madrid will be	more than 70°F.			
Is Dave correct? Show why you think this.					(3)



**5** Kai works in a call centre.

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The table shows the number of phone calls he receives each day.

Monday	Tuesday	Wednesday	Thursday	Friday
240	140	185	80	225

#### Draw a bar chart to display this information.



(Total for Question 5 is 3 marks)



(3)

### 6 Seenal is a baker.

She buys flour in 50 kg bags.

The table shows the number of 50 kg bags of flour she used to make loaves in each of the last 4 weeks.

week	1	2	3	4
number of bags of flour	7	14	8	13

Seenal will make 2400 loaves in week 5 Each of these loaves will need 250 g of flour.

Seenal works out the weekly mean number of 50 kg bags of flour used in these 5 weeks. She will use this figure for future orders.

(a) Work out the weekly mean number of 50 kg bags of flour used in these 5 weeks.

(5)

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$\checkmark$	(b) Show a check of your calculation for the mean.	
		(1)
	(Total for Question 6 is 6 mark	s)

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**7** Gordon buys a new slide for his garden.

His garden measures 6 m by 7 m.

The space for the slide must be

- a rectangle, 3 m by 1.5 m •
- at least 2 m away from the house •
- at least 0.5 m away from a fence or any other feature.



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8 Belinda asks 20 people

'How many hours of TV did you watch last week?'

#### Here are the results.

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3	17	4	4	6
11	14	14	1	20
9	8	9	6	12
7	8	13	13	9

Belinda wants to show these results in a frequency table. She will use 4 equal groups.

The first group will start with 1 hour and the last group will end with 20 hours.

Design and complete a suitable frequency table.

(3)

#### (Total for Question 8 is 3 marks)



55 cm 40 cm length	
The capacity of the container will be 180 litres. 1 litre = $1000 \text{ cm}^3$	
Work out the length of the container. Give your answer to the nearest whole centimetre.	(4)
	cm

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**11** James wants to buy a house. The price of the house is a quarter of a million pounds.

James has to pay a deposit for the house. The deposit is 15% of the price of the house.

James already has part of the deposit. He has £32000

(a) How much **more** money does James need for the deposit?

(4)

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(b)	Show a check of y	your percentage calcu	llation.	(1)
			£	

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