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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 answers at each stage.
- Diagram 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.



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SECTION A

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

1 Shannon works in a mobile phone shop.

This week Shannon makes

- 19 pay as you go phone sales
- 57 SIM card with handset contract sales.

The remaining sales were SIM card only contracts.

Shannon made a total of 114 sales during this week.

What fraction of the sales made by Shannon this week were SIM card only contracts? Write your fraction in its simplest form.

(Total for Question 1 is 3 marks)



3

(3)

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(a) Work out the amount of money that James gets. You must show your working. (2)	DO NOT WRITE IN THIS AREA
٤ (b) Show a check of your working. (1)	DO NOT WRITE IN THIS AREA
(Total for Question 2 is 3 marks)	DO NOT WRITE IN THIS AREA

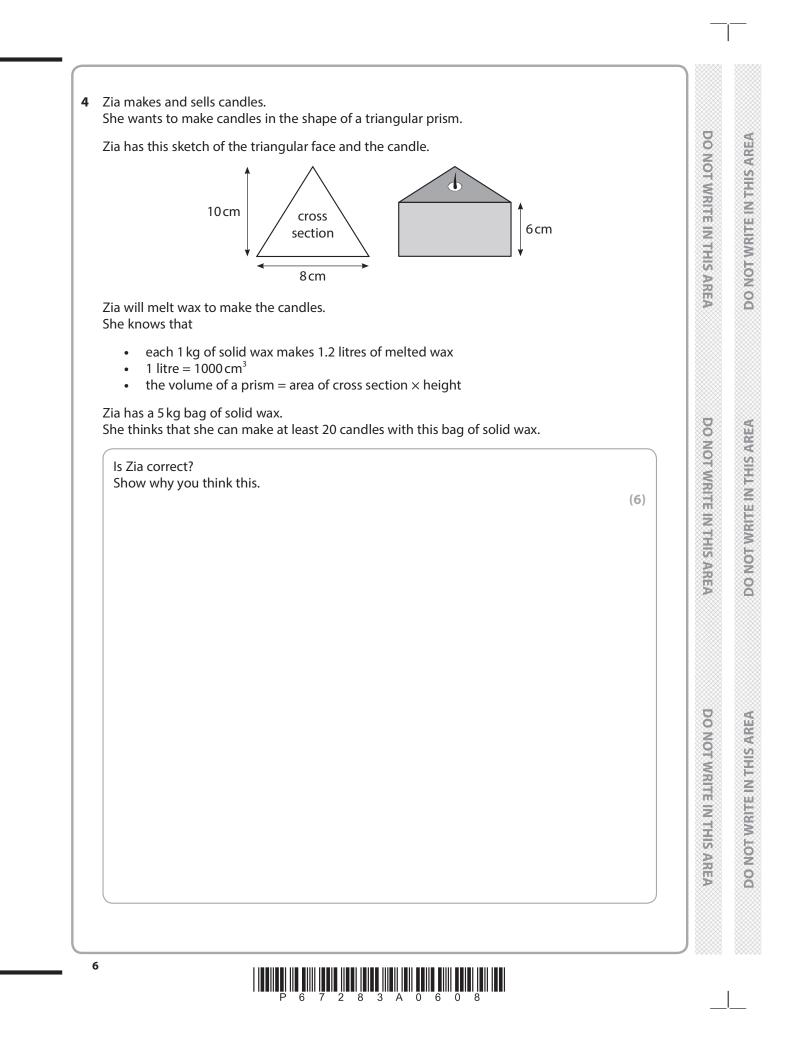


Brian has this information.	y points he has collected is £17.	
	Exchange loyalty points fo travel vouchers and get 3 times the value	
Travel vouchers can be used	to pay for ferry tickets.	
Brian wants to book 2 ferry The ferry tickets cost £33.25	tickets.	
	oyalty points for travel vouchers ichers towards the cost of the fe	
Brian will pay for the rest of	the cost of the ferry tickets with	h his bank card.
How much will Brian pay w	with his bank card?	(4

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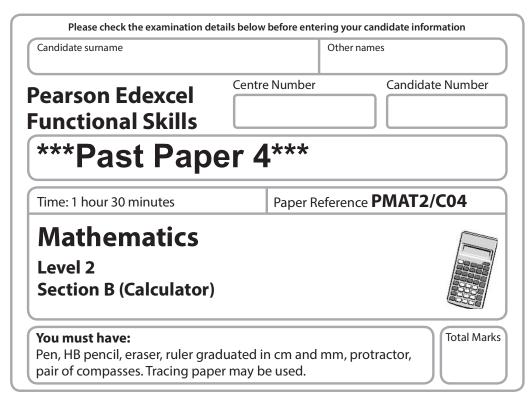
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- Check your working and answers at each stage.
- Diagram are **not** accurately drawn, unless otherwise indicated.
- Calculators may be used.
- If your calculator does not have a π button take the value of π to be 3.14

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 $\sqrt{}$ 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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SECTION B

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

 Johan is cooking using an old recipe. The recipe says to preheat the oven to a temperature of 350 °F.

The oven Johan uses is marked in centigrade (°C). He finds this formula to change from °F to °C.

$$C = \frac{5(F - 32)}{9}$$

$$C = \text{temperat re} \quad \mathsf{C}$$

$$F = \text{temperature }^\circ\mathsf{F}$$

Johan sets the oven temperature to 190 °C.

Has Johan set the oven to the correct temperature for this recipe?

(Total for Question 1 is 3 marks)

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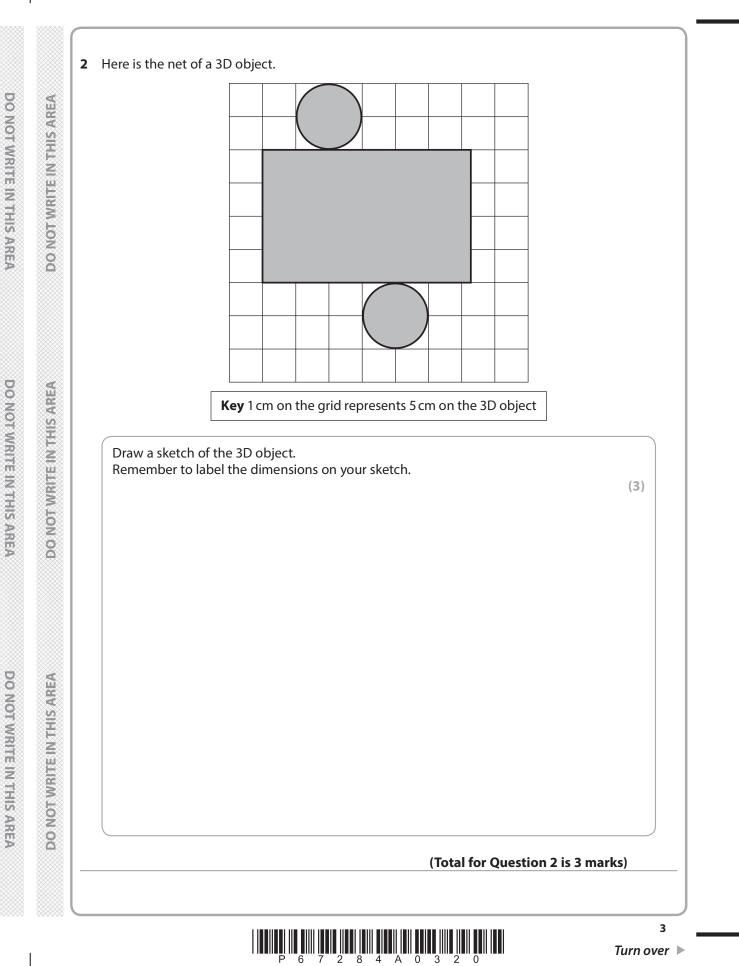
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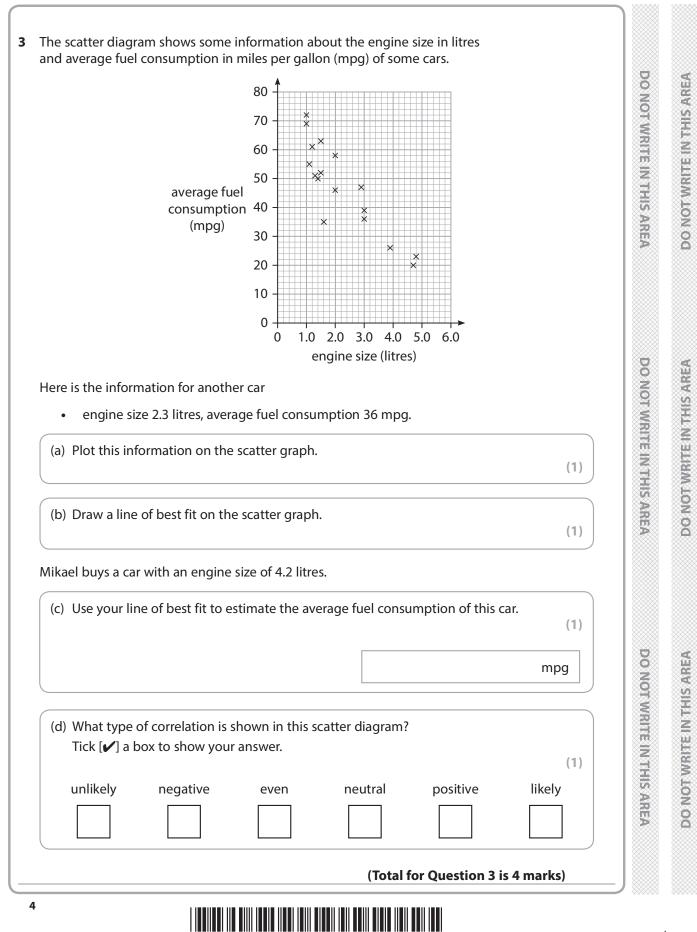
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DO NOT WRITE IN THIS AREA		(b) W St	rite the follow art with the sr 0.5	ing values in nallest value <u>5</u> 9	n order of size e. 0.53	<u>-</u> . <u>4</u> 7	47%	(2)
DO NOT WRITE IN THIS AREA						(1	Fotal for Question 4	4 is 3 marks)



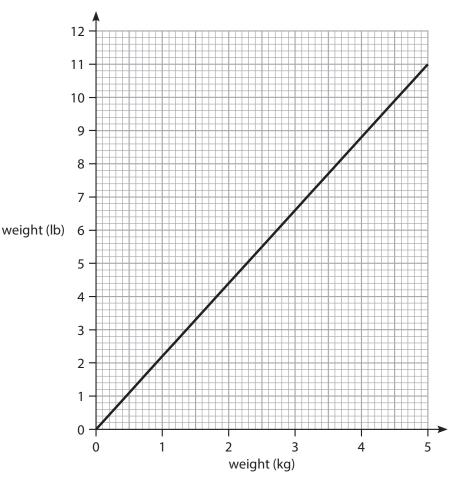
5 Misbah is a midwife at her local hospital.

She is writing a report about changes in the average weight of a baby at birth.

Misbah has this information about birth weights in 2018 at the hospital.

Weight (kg)	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7
Frequency	26	48	74	113	167	132	109	92	36

Misbah can use this graph to change between kg and lb.



Misbah wants to write about the percentage change in the modal weight of a baby from 1998 to 2018

She finds out that the **modal** weight of a baby in 1998 was 7.7 lb



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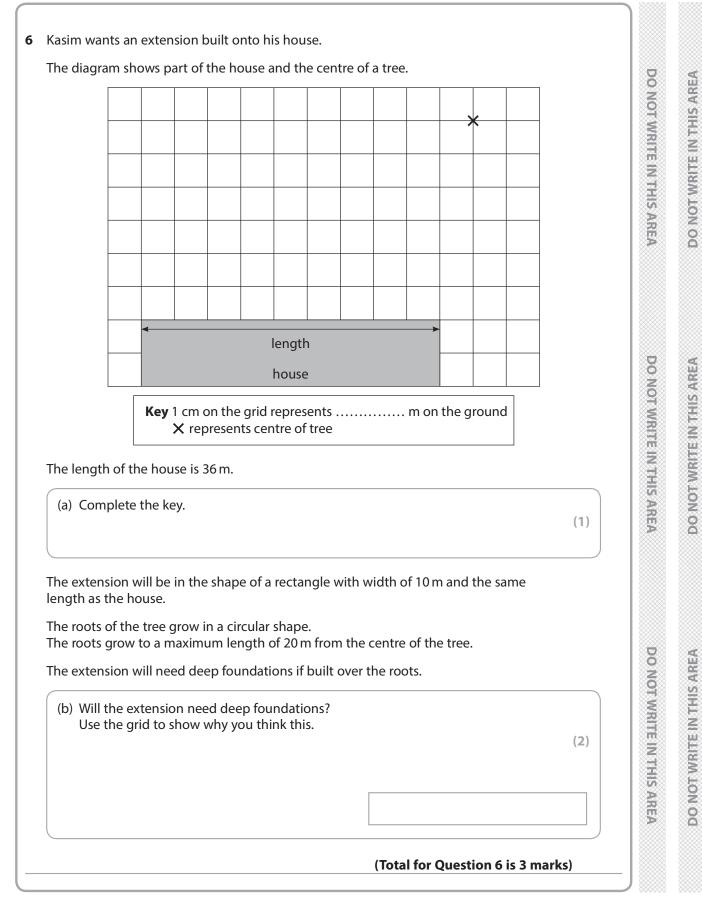
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7 Tess works for a drinks company.She is told that it is better for the environment if less metal is used when making cans.

She starts to design a new can that is taller and narrower than the old can. The new can

- is in the shape of a cylinder
- has a diameter of 52 mm
- has a height of 154 mm
- holds the same amount of drink.

Tess knows that 27 332 mm² of metal is used to make the top, the side and the bottom of each old can.

She thinks that her design will use less metal to make the top, the side and the bottom of each new can.

Is Tess correct? Show why you think this.

(4)

(Total for Question 7 is 4 marks)



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8 Last week 263 people passed their driving test at a test centre.

The table shows information about the number of driving tests these people took before passing.

Number of driving tests taken	Frequency
1	118
2	74
3	43
4	21
5 or more	7

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Keely sees a car she v The purchase price of		
She can pay the purc	hase price in full or use this payment plan.	
	Payment plan	
	Pay $\frac{2}{5}$ of purchase price today	
	24 monthly payments of £112.90	
Keely knows that usir	ng the payment plan will cost more than paying in fu	II.
(c) How much mor	e will Keely pay using the payment plan?	
	£	

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9 Ryan is doing a project about sugar at school.He wants to compare the amount of sugar in grapes with the amount of sugar in cookie dough.

Ryan finds this information

- grapes weighing 92 g contain 15 g of sugar
- cookie dough weighing 610 g contains 110 g of sugar.

Ryan thinks that there is a higher percentage of sugar in the cookie dough than in the grapes.

Is Ryan correct? Show why you think this.

(3)

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(Total for Question 9 is 3 marks)

10 Here is an isosceles triangle. а It has a DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA base length of 13.9 cm • perimeter of 38.2 cm. 13.9 cm (a) Work out the length of side *a* on the triangle. (2) DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA a = cm Here are some calculations. 40 - 14 40 ÷ 14 40 - 10 - 10 14×38 2 40 + 1438 – 14 × 2 38 - 14 - 14 2 |(b) Which calculation is suitable as a check using estimation? Tick [✔] the calculation to show your answer. DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA (1) (Total for Question 10 is 3 marks) 13



(a) Write 6.8% as a decimal. (1)	DO NOT WRITE IN THIS AREA
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less invests £3800 into a savings account for 3 years. She will not put any extra money into the account.	
She will not take any money out of the account. The investment will earn 2.4% compound interest per year.	DO NOT
(b) Work out the total amount of interest earned after 3 years. (4)	DO NOT WRITE IN THIS AREA
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12 Andy works at a medical centre.

He reads a news report about a shortage of doctors in some parts of the UK.

The report states the following figures for the UK

- the average number of patients per doctor is 1734
- the range is 826 patients per doctor.

The table shows some information about the number of patients for each doctor at the medical centre.

Doctor	Number of patients
А	1348
В	1847
С	1760
D	1562
E	1240
F	1703

Andy needs to write a report to compare the figures for the medical centre with the figures for the UK.

He needs to comment on

- a comparison of the average number of patients per doctor
- the consistency of the number of patients per doctor.

Write comments for the report. Remember to use calculations and figures to support your comments.

(6)

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