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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  $\checkmark$  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 🕨

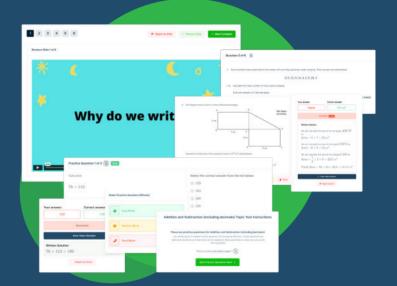
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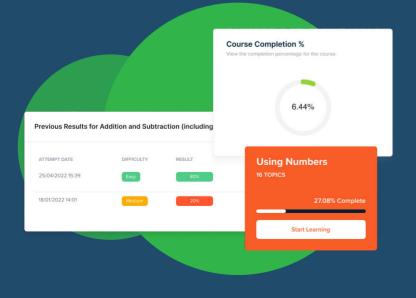
# FUNCTIONAL SKILLS ONLINE COURSES

tional Skills English Initial Assessment	assessmen curre From this dia	r results from this initial t, we estimate you are ntly at Level 1.5. gnostic, we think one of ng courses would be suitable:
🖷 13 Questions 📲 No Timo Limit		ional Skills 5 Level 2
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- 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

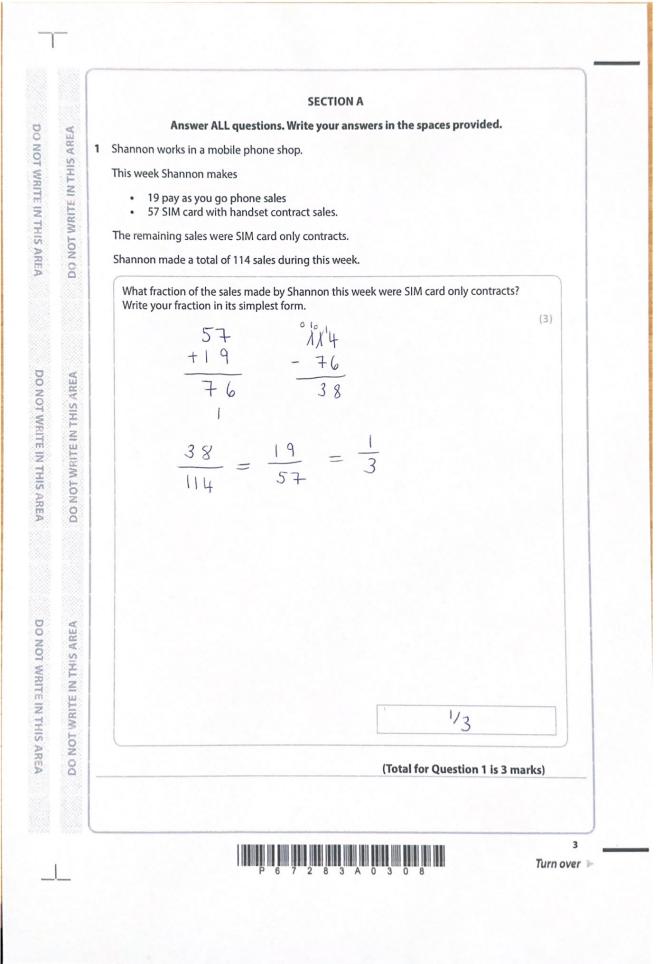


- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions



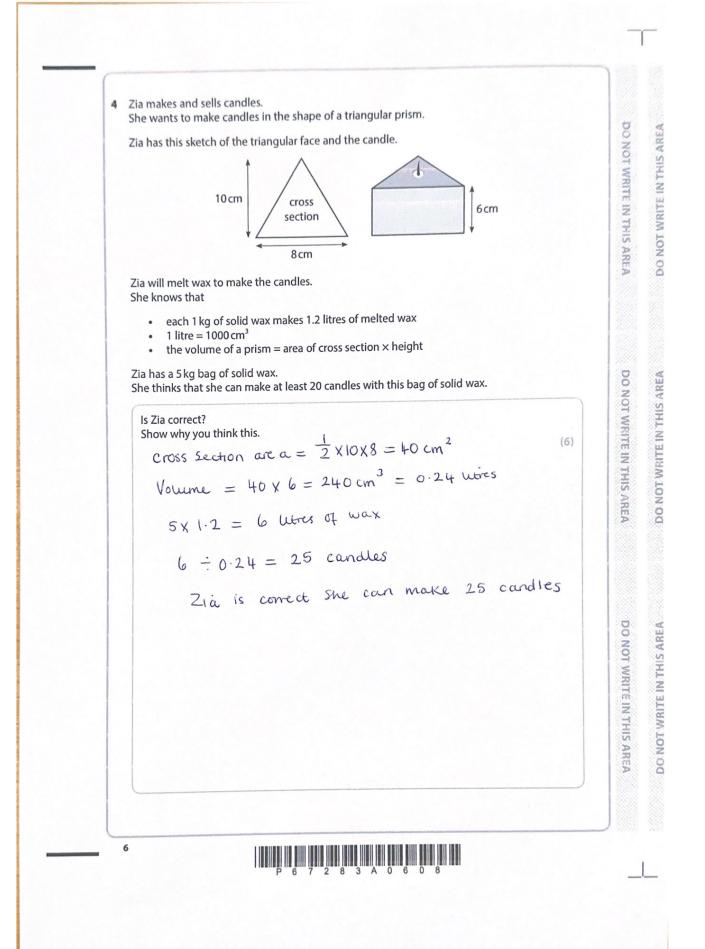
- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

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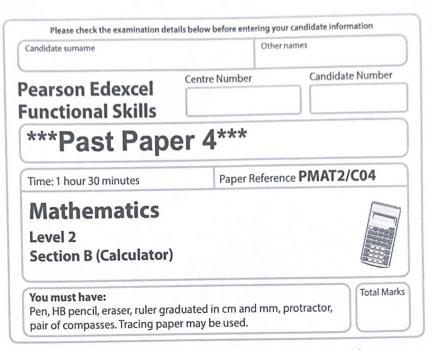
2 Grace and James share £72 in the ratio 4:5 DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA (a) Work out the amount of money that James gets. You must show your working. (2) 4+5=9  $72 \div 9 = 8$  $8 \times 5 = 40$ DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA 40 £  $\checkmark$ (b) Show a check of your working. (1) 40:5=8 DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA (Total for Question 2 is 3 marks) 4 P 6 7 2 8 3 A 0 4 0 8

	5 Turn over
	(Total for Question 3 is 4 marks)
VENT ANT THE PARTY OF	£ 9-75
NAME CITLE VIL	$\frac{52.50}{09.75}$
	$52.50$ $5\frac{1}{67.25}$
	$     \begin{array}{c}             0 \\             1 \cdot 50 \\             21 \cdot 00 \\             30 \cdot 00         \end{array}         $
DO NOT WALLE BY LINE AVEN	$\frac{3}{17.50} + \frac{33.25}{29.00}$
CHUE	How much will Brian pay with his bank card? (4)
ale morris.	Brian will exchange all his loyalty points for travel vouchers. He will use all the travel vouchers towards the cost of the ferry tickets. Brian will pay for the rest of the cost of the ferry tickets with his bank card.
02.02.20102.00.00	Travel vouchers can be used to pay for ferry tickets. Brian wants to book 2 ferry tickets. The ferry tickets cost £33.25 and £29
	Exchange loyalty points for travel vouchers and get 3 times the value
	<ul> <li>Brian collects loyalty points at the supermarket. The total value of the loyalty points he has collected is £17.50</li> <li>Brian has this information.</li> </ul>



	TOTAL FOR SECTION A IS 16 MARKS
TON OC	(Total for Question 4 is 6 marks)
WRITEIN	
DO NOT WRITE IN THIS AREA	
EA	
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TWRITE	
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DO NOT	
DO NOT WRITE IN THIS AREA	
THIS ARE	

8



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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.
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#### Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

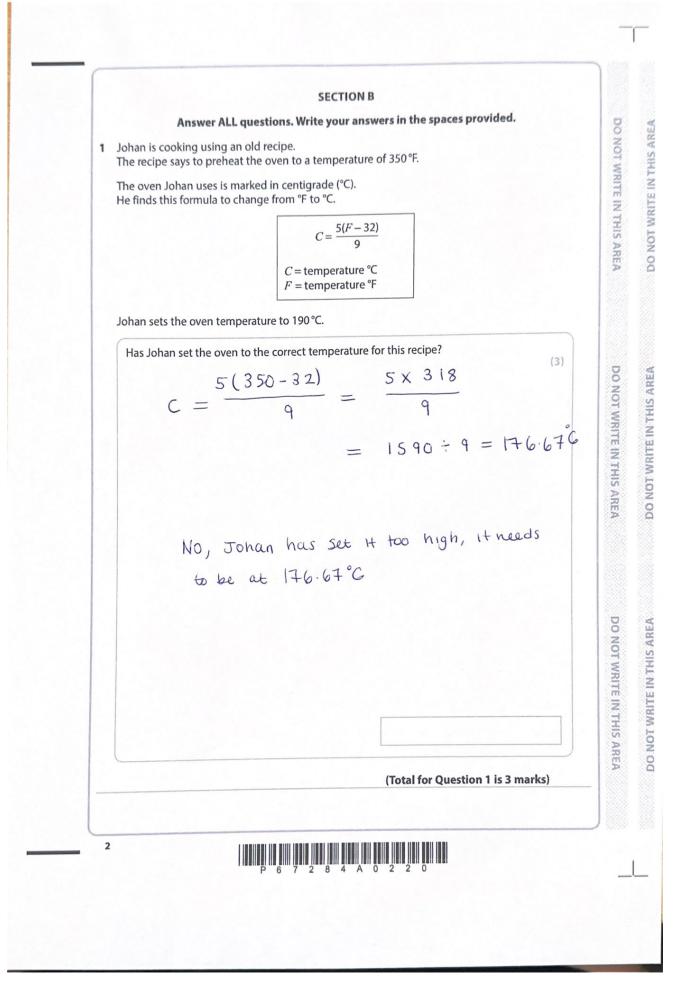
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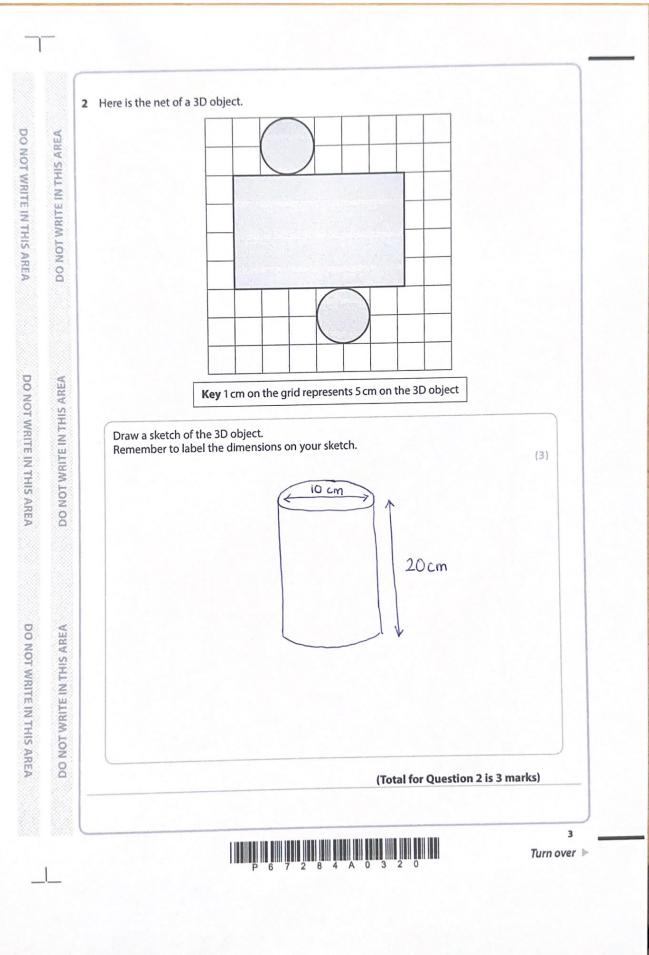


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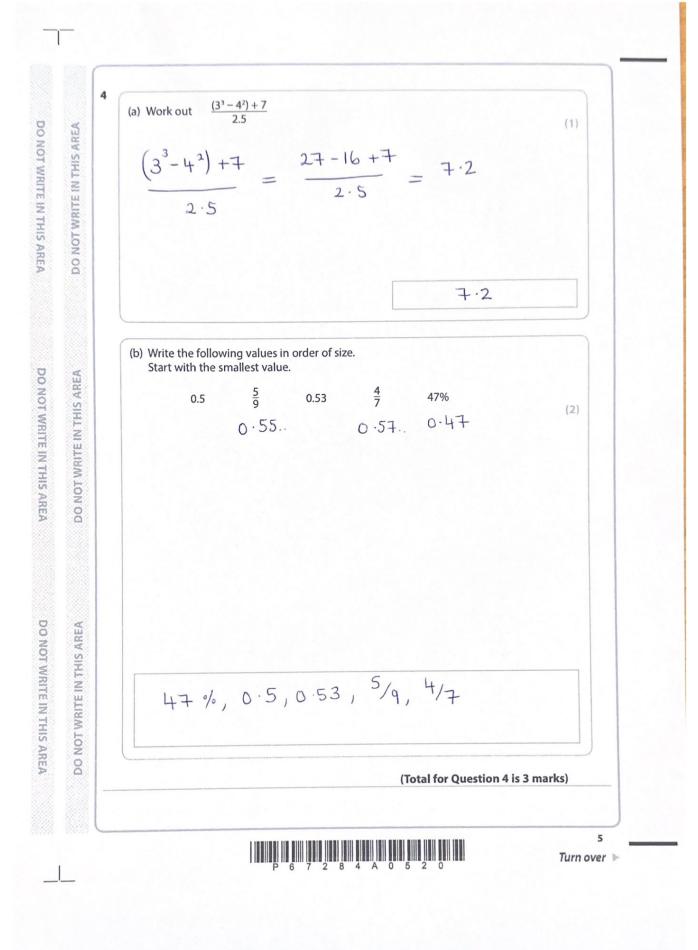
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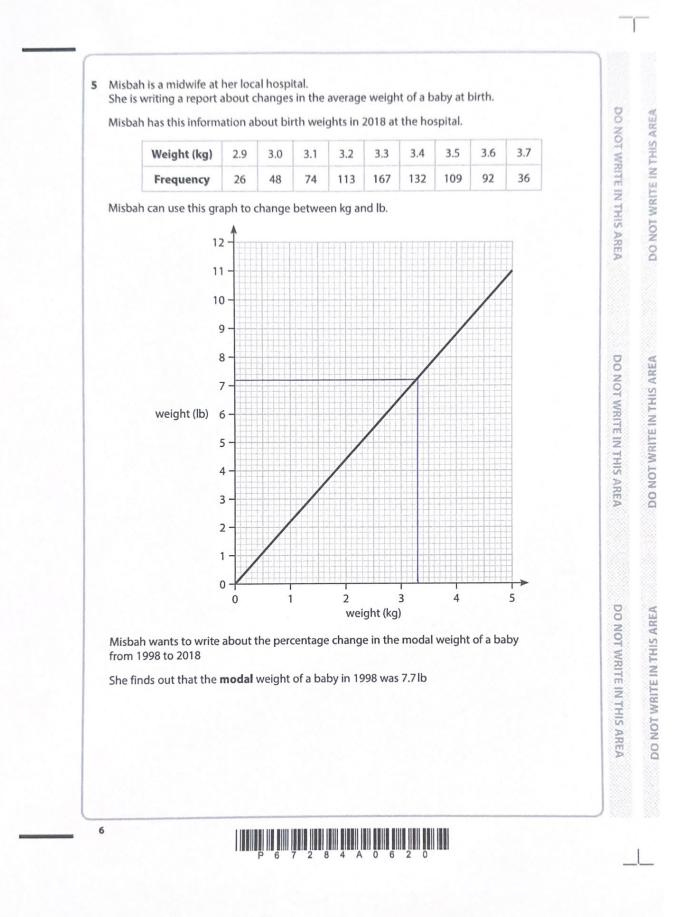


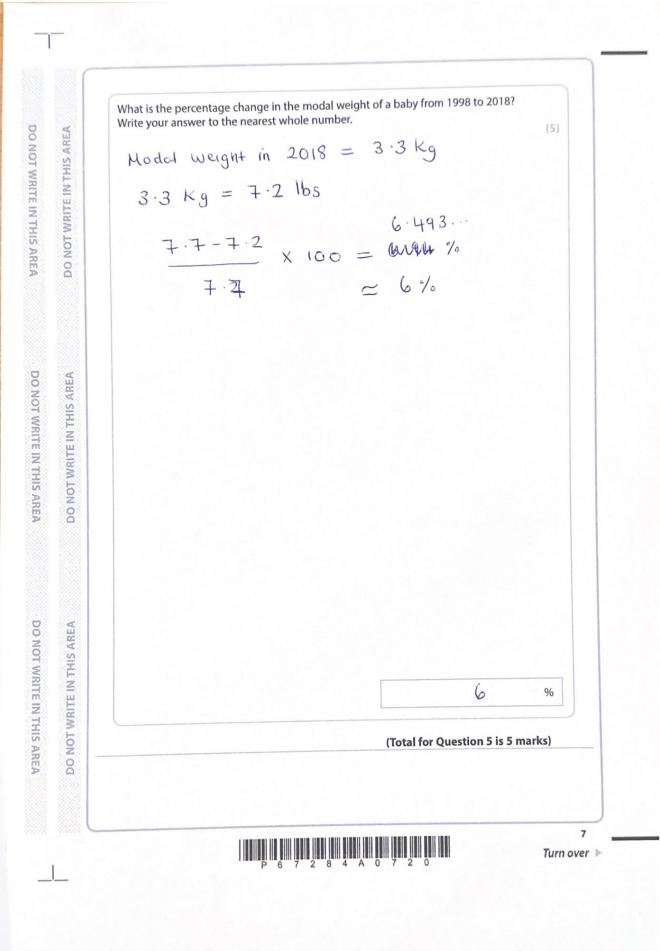
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	g) of some cars.
Here is the information for another car	상영상에서 전신
engine size 2.3 litres, average fuel consumption	36 mpg.
(a) Plot this information on the scatter graph.	(1)
(b) Draw a line of best fit on the scatter graph.	(1)
Mikael buys a car with an engine size of 4.2 litres.	
(c) Use your line of best fit to estimate the average for	uel consumption of this car. (1)
	2 <u>.5</u> mpg
(d) What type of correlation is shown in this scatter of Tick [1] a box to show your answer.	diagram? (1)
unlikely negative even ne	eutral positive likely
	(Total for Question 3 is 4 marks)
4	

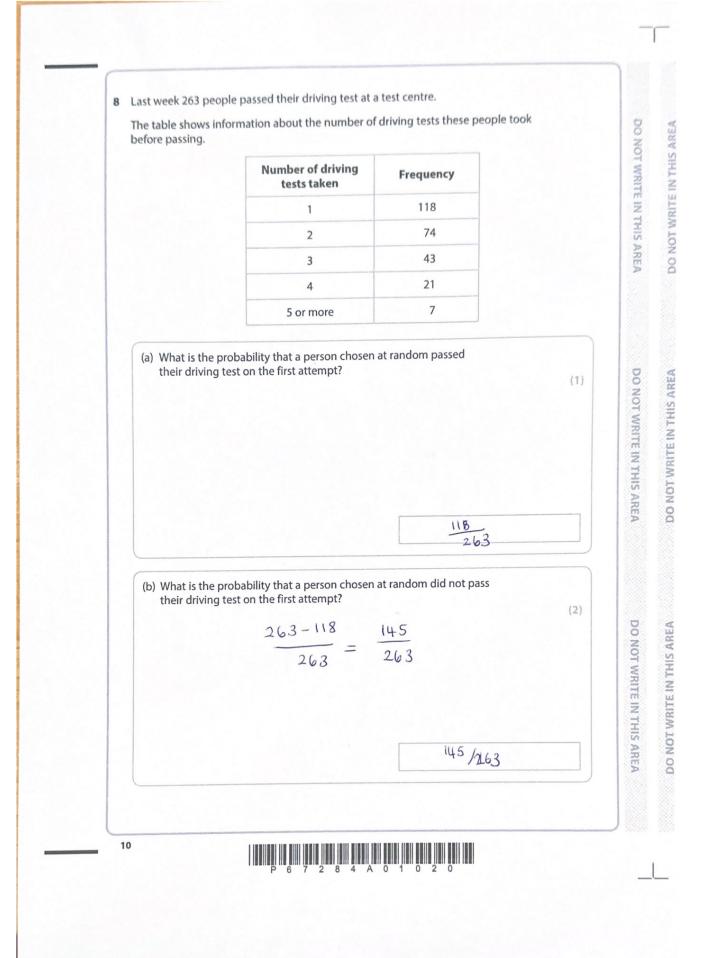


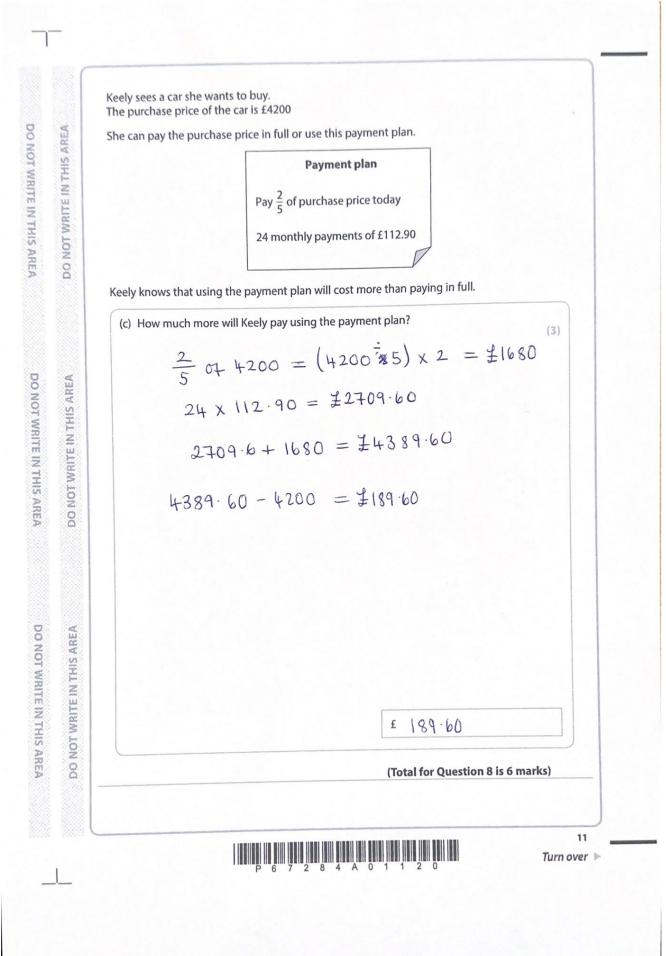


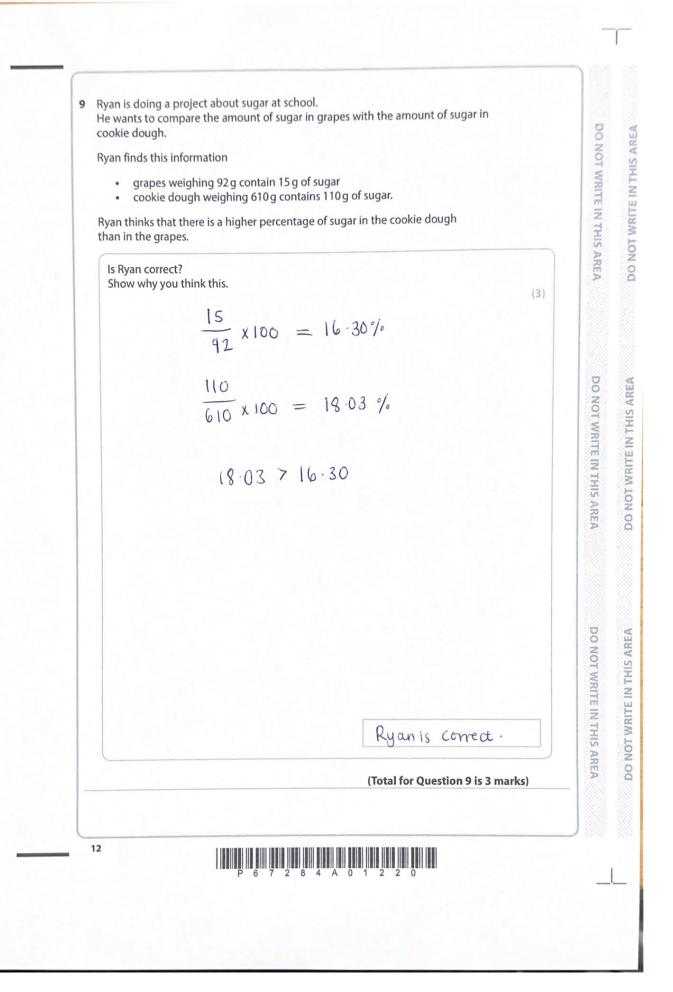


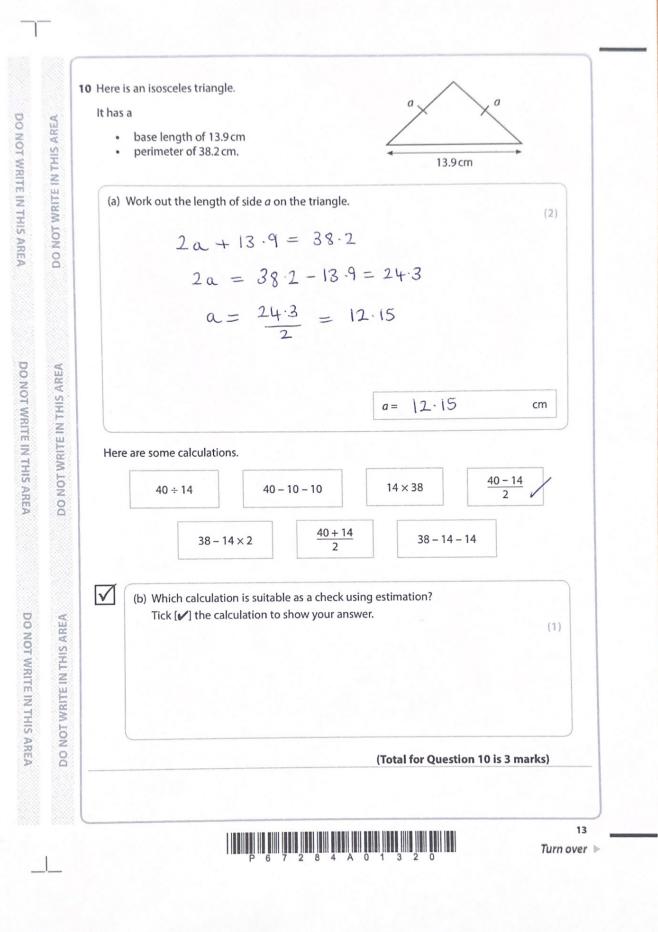
	nts an extension built onto his house. am shows part of the house and the centre o	of a tree.
inc and g		
		*
	length	
	house	
	Key 1 cm on the grid represents X represents centre of tree	H m on the ground
The lane	th of the house is 36 m.	
(a) Co	mplete the key. $36 \div 9$	= 4 (1)
	nsion will be in the shape of a rectangle with s the house.	width of 10 m and the same
The root	s of the tree grow in a circular shape. s grow to a maximum length of 20 m from the	e centre of the tree
	nsion will need deep foundations if built over	
		20:4 = 5
Us		$10 \div 4 = 2.5$ (2)
		Yes, part of the extension will be over the root.

Tess works for a drinks company. 7 She is told that it is better for the environment if less metal is used when making cans. DO NOT WRITE IN THIS AREA She starts to design a new can that is taller and narrower than the old can. AREA The new can IN THIS. is in the shape of a cylinder . has a diameter of 52 mm . WRITE II has a height of 154mm holds the same amount of drink. . Tess knows that 27332 mm<sup>2</sup> of metal is used to make the top, the side and NOT the bottom of each old can. 80 She thinks that her design will use less metal to make the top, the side and the bottom of each new can. 52 mm Is Tess correct? Show why you think this. (4)Surface area of top/bottom =  $3 \cdot 14 \times \left(\frac{52}{2}\right)^2 = 2122 \cdot 64 \text{ mm}^2$ 154mm DO NOT WRITE IN THIS AREA NOT WRITE IN THIS AREA curved surface area = 314×52×154 = 25145.12 mm Total SA = 2122.64X2+25145.12 = 29390.4 mm<sup>2</sup> Tess is not correct it will use more metal 00 (293904mm) DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA NO (Total for Question 7 is 4 marks) 9 Turn over 🕨









11 (a) Write 6.8% as a decimal. (1) DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA 0.068 Jess invests £3800 into a savings account for 3 years. She will not put any extra money into the account. DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA She will not take any money out of the account. The investment will earn 2.4% compound interest per year. (b) Work out the total amount of interest earned after 3 years. (4)  $3800 \times 1.024^3 = 4080.22$ 4080 · 22 - 3800 = 建280 · 22 DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA 14 P 6 7 2 8 4 A 0 1 4

RITE IN THIS AREA	DO NOT WI		
· · · · · · · · · · · · · · · · · · ·	DO NOT WRITE IN THIS AREA		

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.

DO NOT WRITE IN THIS AREA

(6)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

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

16

- 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.

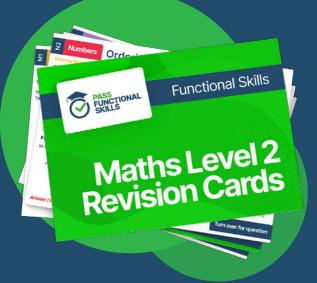
mean number = (1348+1847+1760+1562+1240  $+1703) \div 6 = 1576.67$ of patients ~1577 range = 1847 - 1240 = 607 The average number of patients per doctor is lower than the national average and the range is

Smaller so the results are more consistent.

7 2 8 4 A 0 1 6 2







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