Candidate sumame		Other names
Pearson Edexcel Functional Skills	Centre Number	Candidate Nu
Past Pape	er 2	
Time: 25 minutes	Paper R	Reference PMAT2/NO2
Mathematics Level 2 Section A (Non-Calcu	lator)	

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

Signature:

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 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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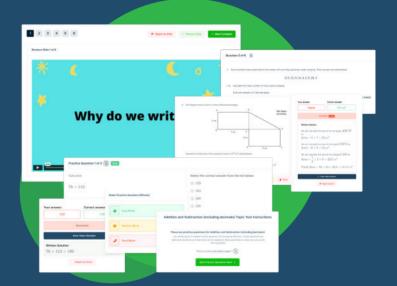
Turn over 🕨



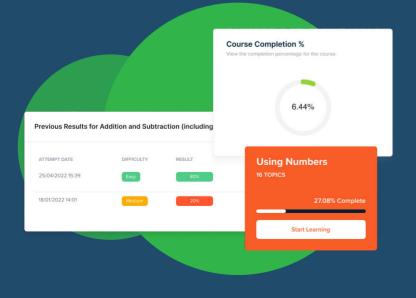
FUNCTIONAL SKILLS ONLINE COURSES

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
Start Initial Assessment	≡ 35 Topic Count	© 105 Tests
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S Questions No Time Limit Mixed Calculator		Enrol Now
Start Initial Assessment	Pi	ck my own

- 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



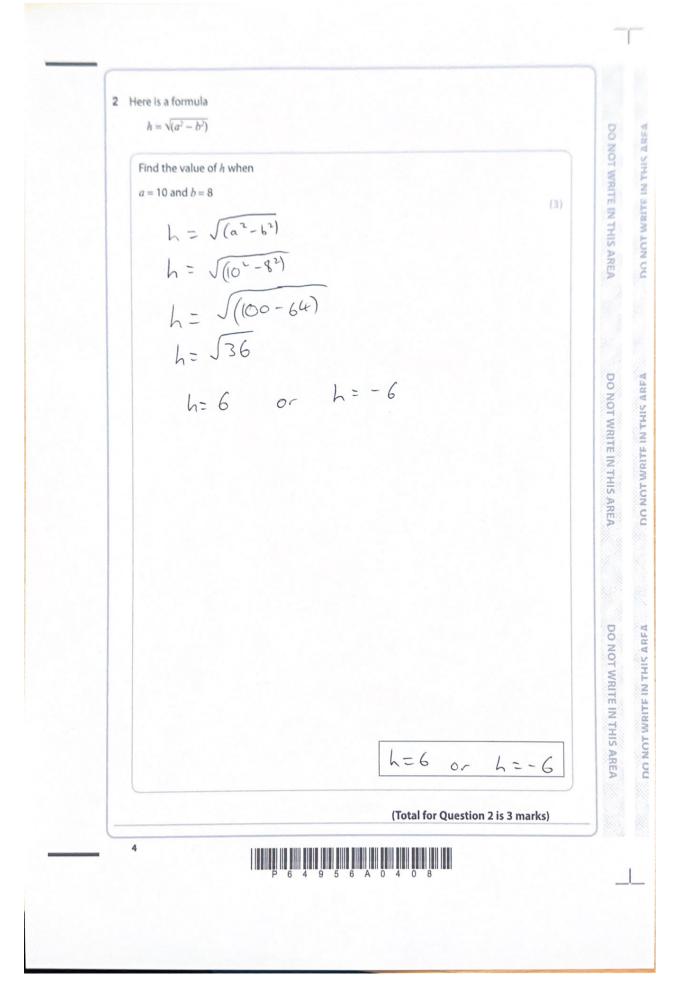
- Explainer videos on every topic
- Quick-fire style mutiple choice questions
- Test your knowledge with exam-style questions
- Written solutions for all questions

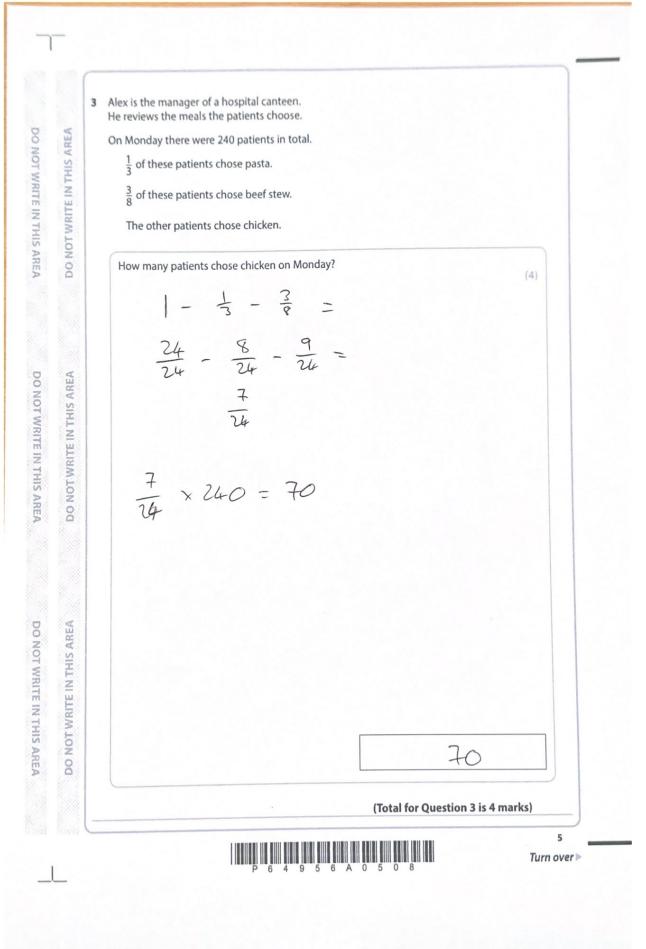


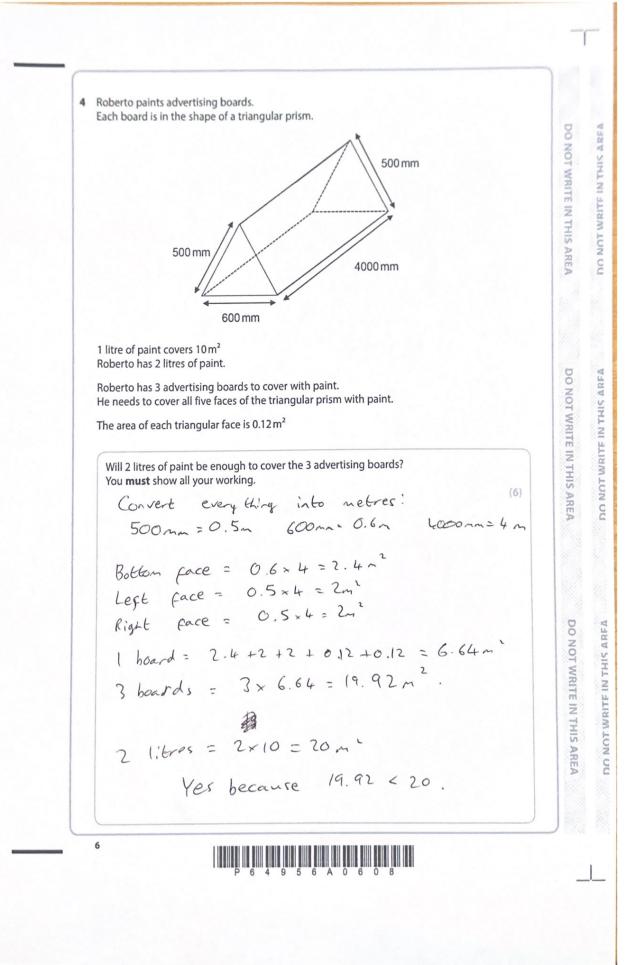
- See your progress through as you progress through each topic area
- Get your average scores for practice questions, topic tests and mock exams
- View all practice question, topic test and mock exam attempts over time
- View historical attempts to analyse your progress over time

Or visit passfunctionalskills.co.uk

	SECTION A
	Answer ALL questions. Write your answers in the spaces provided.
1	Here are the times, in seconds, five athletes took to finish a 100 m race.
	11.05 10.94 11.12 10.91 11.12
	(a) Find the median. (2) 10.91, 0.94, 11.05, 11.12, 11.12
	(b) Find the mode. (1) 11.2 a ppears twice.
	(1,12 seconds
	(Total for Question 1 is 3 marks)
-	







DO NOT WRITE IN THIS AREA	
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DO NOT WR	
DO NOT WRITE IN THIS AREA	
DO NOT	(Total for Question 4 is 6 marks)

Please check the examination de	tails below before ent	ering your candidate information
Candidate surname		Other names
Pearson Edexcel Functional Skills	Centre Number	Candidate Numbe
Past Pape	er 2	
Time: 1 hour 30 minutes	Paper F	Reference PMAT2/C02
Mathematics Level 2 Section B (Calculator)		
You must have: Pen, calculator, HB pencil, erase protractor, pair of compasses.		

Signature:

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 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 \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 🕨



SECTION B

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

 Karen needs to buy a new fridge. The fridge must fit in a space in the kitchen.

The space has width 19 inches, depth 22 inches and height 36 inches.

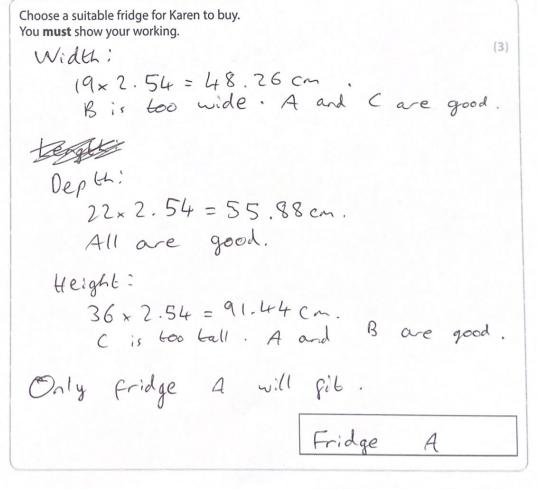
Karen sees these fridges for sale.

fridge	width in cm	depth in cm	height in cm
A	47.2	44.6	84.2
B	49.4	44.6	83.9
~	46.5	44.6	94.2

1 inch = 2.54 cm

2

Karen will buy one of these fridges.



(Total for Question 1 is 3 marks)

2	у *
DO NOT WRITE IN THIS AREA	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
DO NOT WRITE IN THIS AREA	(a) Write down the coordinates of point C. (1)
DO NOT W	C1, -1)
	(b) Mark with a cross the point <i>D</i> on the grid so that <i>ABCD</i> is a parallelogram. (1
DO NOT WRITE IN THIS AREA	(c) Write down the sum of the angles in a parallelogram. (1 360 °
O NOT WRIT	

•

3 Carla is the director of a building company. She employs builders at a site in Hull and at a site in London.

The average day rate of her builders in London is £153

In Hull the day rates she pays her builders are shown in this table

builder	A	В	с	D	E	F	G
day rate (£)	290	75	115	84	120	89	298

The builders in Hull say their average day rate is less than £153

Carla says the average day rate is the same in Hull and in London.

Show how both these statements can be true. You must show your working. Mean in Hull: 290+75+115+84+120+89+298= 1071 1071 = 7 = 153. Median in Hall: 75, 84, 89, (15) 120, 290, 298 115 The mean average in Hull is £153, which is the same as London. The median average in Hull is £115, which is less than in London.

(Total for Question 3 is 4 marks)

(4)

AREA

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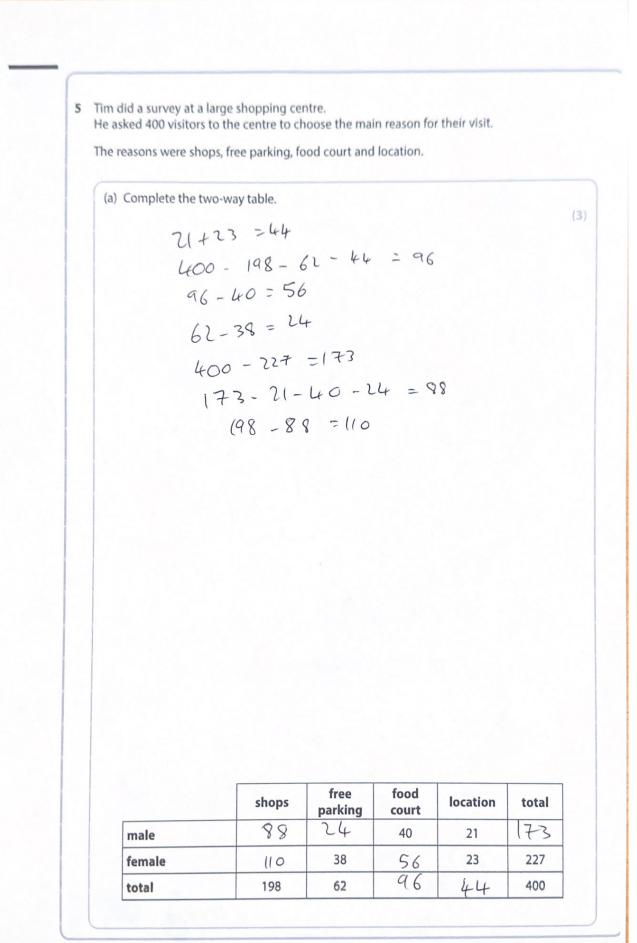
Last year 123 students left a college with a pass in English. 4

This year 27 more students than last year left the college with a pass in English.

The college says

'The number of students leaving college with a pass in English has increased by 24% from last year.'

DO NOT WRITE IN THIS (a) Is the college correct? Show why you think this. (2)123+27= 150 this year $\frac{150 - 123}{123} = 0.2195$ = 21.95%DO NOT WRITE IN THIS AREA No. The college is wrong. 21.95% and No (b) Use a reverse calculation to show a check of your answer. \checkmark (1) 21,95:100 × 23 = 27. DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA (Total for Question 4 is 3 marks)



*

From the people taking part in the survey, one person is chosen at random to get a prize. DO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA (b) Find the probability a female who chose location gets the prize. (2)23 E Female who chose location 400 2 Total in survey DO NOT WRITE IN THIS AREA 23 400 (Total for Question 5 is 5 marks)

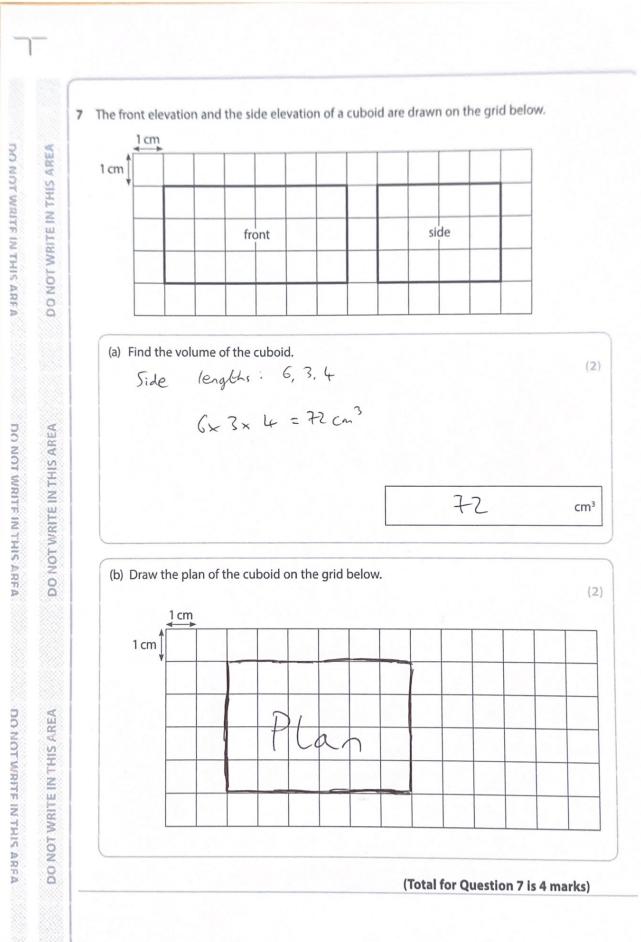
6 Wahab sells cars.

The table shows information about the number of cars he sold each week for the last 26 weeks.

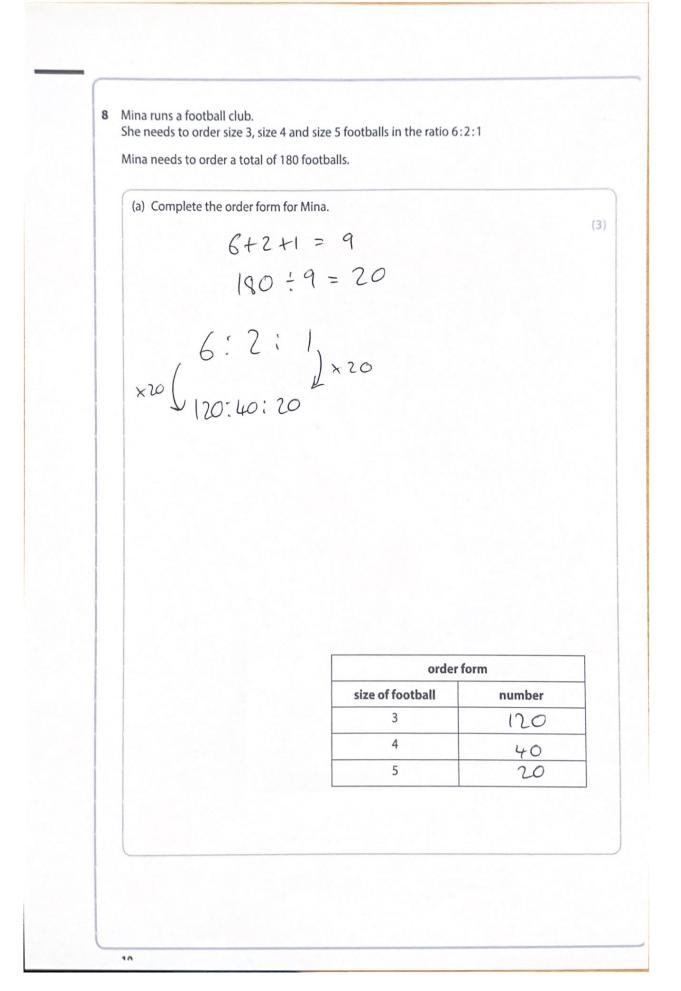
number of cars sold each week	frequency	mid point	Frequency x midpoint
1-5	2	3	6
6-10	12	8	96
11-15	9	13	117
16-20	3	18	54
Total	26	\times	273

Wahab estimates he sold a mean average of 10 cars per week.

Is this estimate of the mean correct? Show why you think this. (3) 273 - 26 = 10.5 No because 10.5 7 10 No and 10.5 (Total for Question 6 is 3 marks) 0



n



Mina also needs to buy medical equipment.

She needs 23 packets of plasters.

One packet costs £4.49

A box of 5 packets costs £20.25

(b) Can Mina buy 23 packets of plasters for less than ± 100 ? Show why you think this.

4.49×5 = 22.45 > 20.25 So it is cheaper to buy packs of 5 where possible.

The Need 4 packs of 5 and 3 packs of 1

4×20.25 + 3×4.49 = £94.47

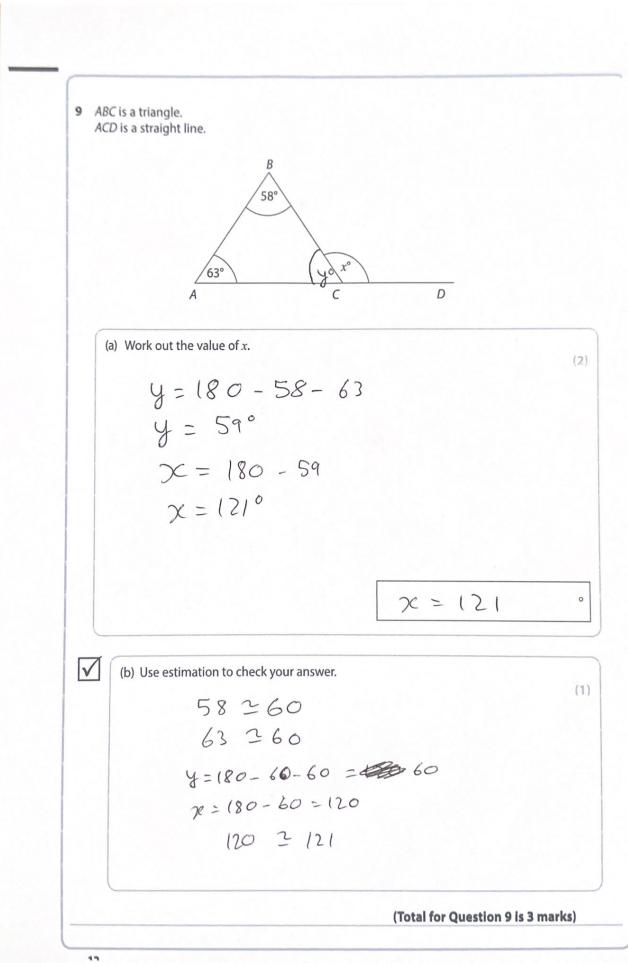
Yes, Mira can buy 23 packets for £94.47 which is less than £100

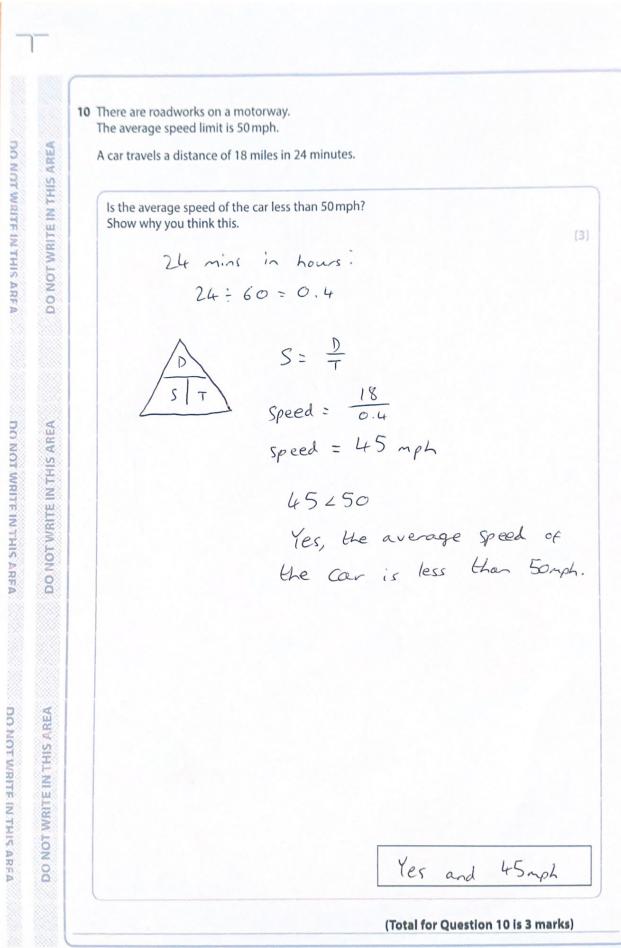
and £94.47 Yes

(3)

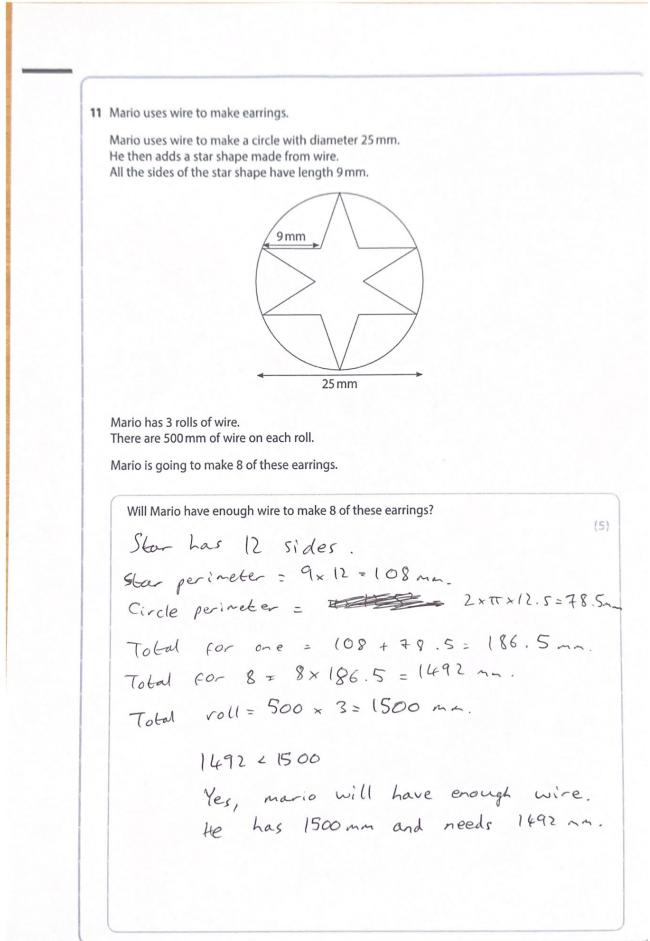
(Total for Question 8 is 6 marks)

4.4





4.9

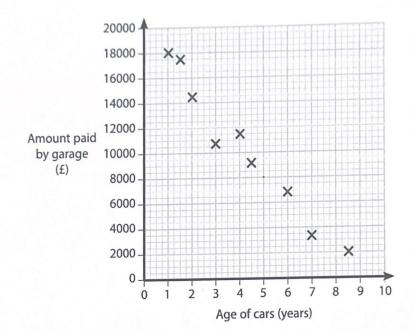


4.4

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DO NOT WRITE IN THIS AREA			
DO NOT WRITE IN THIS AREA			

12 Daniel has a blog about how garages buy and sell cars.

The scatter diagram gives information about the amount garages pay for one type of car depending on its age.



Daniel is going to use the scatter diagram to estimate the monthly payments for a car the garage is going to sell.

Daniel knows garages sell cars for 34% more than they paid.

The car is 5 years old and there are 24 equal monthly payments.

Work out the cost of one monthly payment.

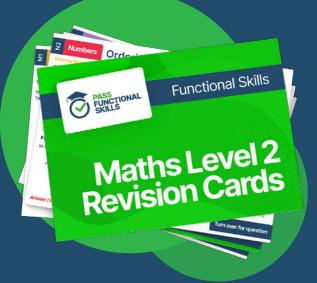
...

5 year old ca garage buys at £8000 Carage sells at 8000×1.34 = £10720 10720 - 24 = £446.67 (6)

Monthly payments are £446.67.







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