Other Names

Mathematics June 2017 Paper 1 (Non Calculator) Part 2 (Second half of the paper)

Edexcel Foundation Tier

Time: 45 minutes

Q	Topic	Max Mark	My Marks
17	Forming and Solving Equations	4	
18	Area of a Circle, Estimation	5	
19	Solving Equations, Inequalities	4	
20	Percentage Increase	2	
21	Scatter Graphs	5	
22	Prime Factors	2	
23	Multiplying Decimals	3	
24	Simplifying Algebra, Forming Equations	3	
25	Pythagoras' Theorem	5	
26	The Equation of a Line, Parallel Lines	2	
27	Vectors (In Shapes)	3	
	Total	38	

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17 5 tins of soup have a total weight of 1750 grams.4 tins of soup and 3 packets of soup have a total weight of 1490 grams.

Work out the total weight of 3 tins of soup and 2 packets of soup.

grams

(Total for Question 17 is 4 marks)



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10		
18	Balena has a garden in the shape of a circle of radius 10 m. He is going to cover the garden with grass seed to make a lawn.	
	Grass seed is sold in boxes. Each box of grass seed will cover 46 m ² of garden.	•
	Balena wants to cover all the garden with grass seed.	10 m
	(a) Work out an estimate for the number of boxes of grass seed Balena needs You must show your working.	
		(4)
	(b) Is your estimate for part (a) an underestimate or an overestimate? Give a reason for your answer.	
ntraa		(1)
	(Total for Question	18 is 5 marks)



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 $-3 < t \le 2$ *t* is an integer.

(b) Write down all the possible values of t.

(Total for Question 19 is 4 marks)

 $\chi = \dots$

(2)

(2)

20 Azmol is paid £1500 per month.He is going to get a 3% increase in the amount of money he is paid.

Work out how much money Azmol will be paid per month after the increase.

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(Total for Question 20 is 2 marks)

£...



21 The scatter graph shows the maximum temperature and the number of hours of sunshine in fourteen British towns on one day. DO NOT WRITE IN THIS AREA 20 ×х × × 18 16 Maximum temperature хх $(^{\circ}C)$ 14 DO NOT WRITE IN THIS AREA × × 12 × X 10 9 11 13 15 17 7 Number of hours of sunshine One of the points is an outlier. (a) Write down the coordinates of this point. (1)DO NOT WRITE IN THIS AREA (b) For all the other points write down the type of correlation. (1)



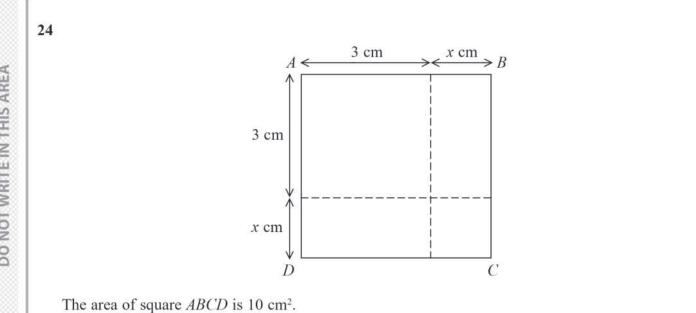
DO NOT WRITE IN THIS AREA

On the builde duy, in another Difficin to will, the me	ximum temperature was 16.4°C.
(c) Estimate the number of hours of sunshine in	
	(2)
A weatherman says,	
"Temperatures are higher on days when t	here is more sunshine."
(d) Does the scatter graph support what the weat Give a reason for your answer.	herman says?
	(1)
	(1)
	(Total for Question 21 is 5 marks)
	(Total for Question 22 is 2 marks)
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23 Work out 54.6 × 4.3

(Total for Question 23 is 3 marks)



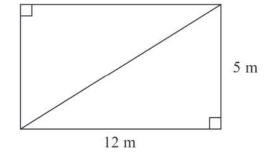


Show that $x^2 + 6x = 1$

(Total for Question 24 is 3 marks)



25 This rectangular frame is made from 5 straight pieces of metal.



The weight of the metal is 1.5 kg per metre.

Work out the total weight of the metal in the frame.

kg

(Total for Question 25 is 5 marks)

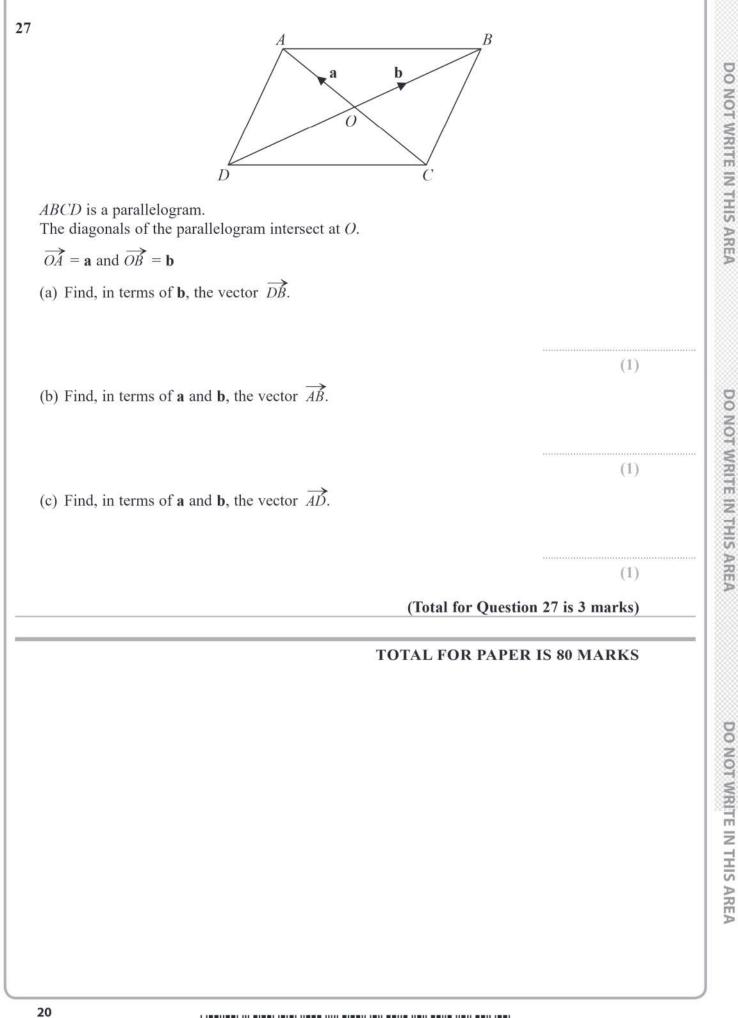


26 The equation of the line L_1 is y = 3x - 2The equation of the line L_2 is 3y - 9x + 5 = 0

Show that these two lines are parallel.

(Total for Question 26 is 2 marks)





P 4 8 1 3 4 A 0 2 0 2 0