Other Names

Mathematics

November 2018 Paper 3 (Calculator Allowed) Part 2 (Second half of the paper) Edexcel Foundation Tier

Time: 45 minutes

Q	Topic	Max Mark	My Marks
18	Percentage Increase, Money Problems	4	
19	Inequalities	7	
20	Rounding, Using a Calculator	3	
21	Percentage Change, Percentage Increase	3	
22	Quadratic Graphs	5	
23	Bar Charts, Percentage, Estimate the Mean	6	
24	Compound Measures, Speed	4	
25	Sharing Ratio, Trigonometry SOHCAHTOA	4	
26	Sequences, Nth Term	2	
	Total	38	

For worked solutions and video solutions visit mathsgenie.co.uk

18 Trevor buys a boat.

The cost of the boat is £14200 plus VAT at 20%

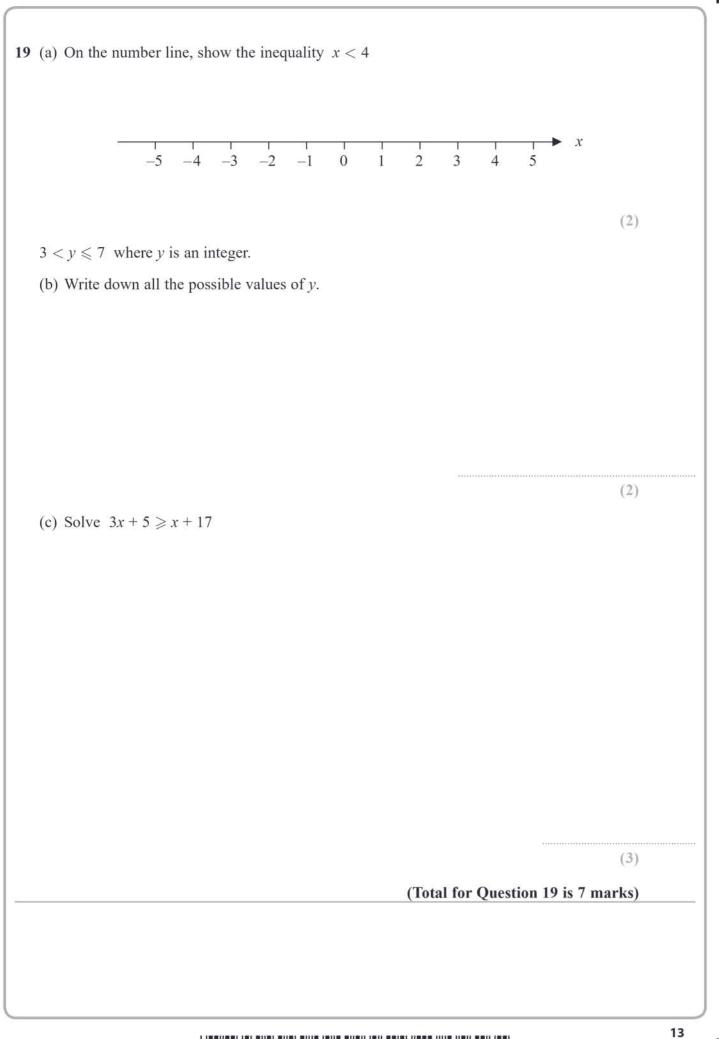
Trevor pays a deposit of £5000 He pays the rest of the cost in 10 equal payments.

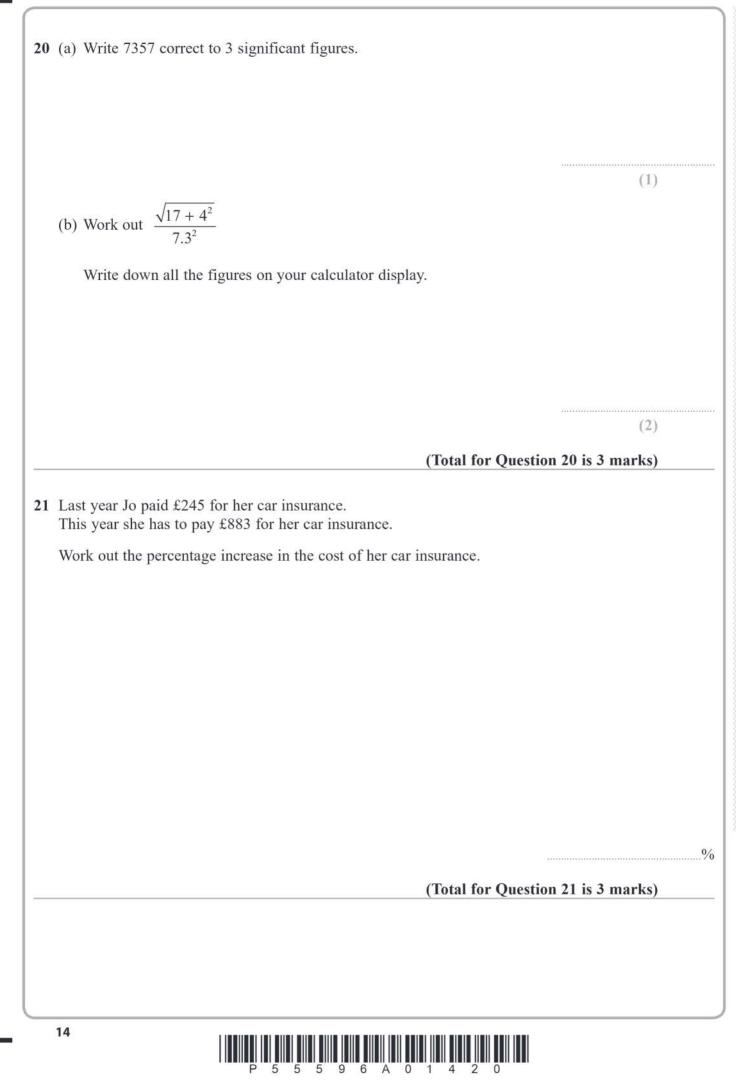
Work out the amount of each of the 10 payments.

£.....

(Total for Question 18 is 4 marks)





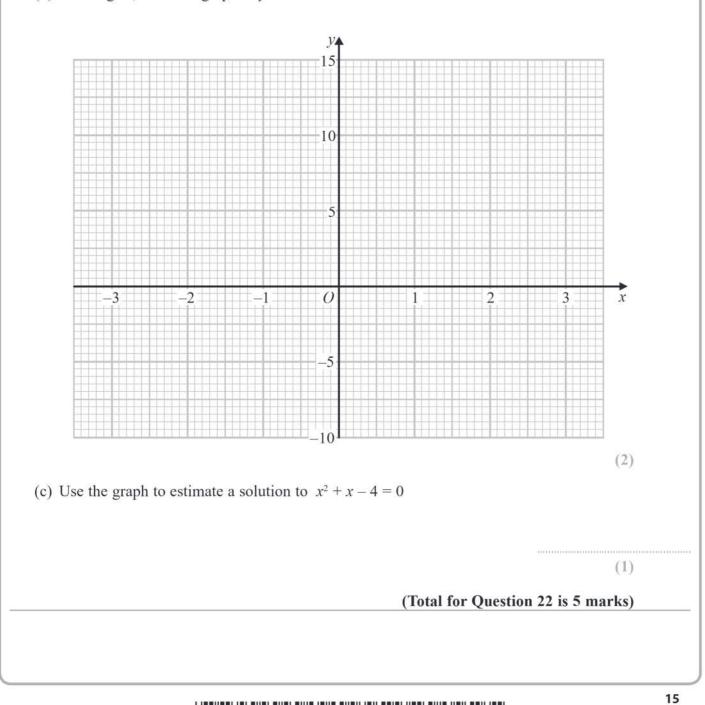


22 (a) Complete this table of values for $y = x^2 + x - 4$

x	-3	-2	-1	0	1	2	3
У		-2	-4		-2		

(2)

(b) On the grid, draw the graph of $y = x^2 + x - 4$ for values of x from -3 to 3



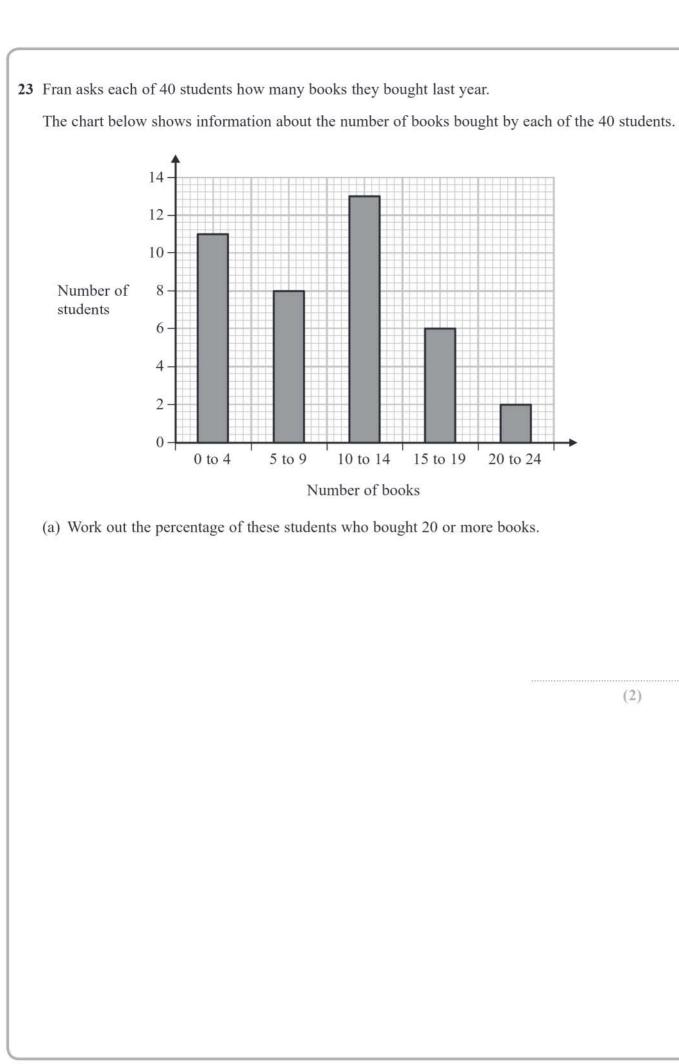




%

(2)

DO NOT WRITE IN THIS AREA





(b)	Show that an estimate for the mean number of books bough	nt is 9.5
	You must show all your working.	

(4)

(Total for Question 23 is 6 marks)



DO NOT WRITE IN THIS AREA

24 Lara is a skier.

She completed a ski race in 1 minute 54 seconds. The race was 475 m in length.

Lara assumes that her average speed is the same for each race.

(a) Using this assumption, work out how long Lara should take to complete a 700 m race. Give your answer in minutes and seconds.

..... minutes seconds (3)

Lara's average speed actually increases the further she goes.

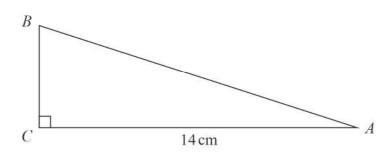
(b) How does this affect your answer to part (a)?

(1)

(Total for Question 24 is 4 marks)



25 *ABC* is a right-angled triangle.



AC = 14 cm.Angle $C = 90^{\circ}$

size of angle B : size of angle A = 3:2

Work out the length of *AB*. Give your answer correct to 3 significant figures.

.....cm

(Total for Question 25 is 4 marks)



DO NOT WRITE IN THIS AREA

26 Here are the first four terms of an arithmetic sequence. 5 11 17 Write down an expression, in terms of n, for the nth term of the sequence.

(Total for Question 26 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS

23

