

PRACTICE PAPER FOR

Edexcel Paper 3F (June 2024)

----- Disclaimer ------This paper has been created based on the most common paper 3 topics from previous years and also careful analysis of what topics have already appeared in paper 1/2. The paper should be excellent at helping students revise for exams, however should not be relied upon as the basis for revision. The topics from this paper may well appear in the real exams, however there is absolutely no guarantee of this. Some topics may appear, some may not. Anybody giving you any sort of guarantee is misleading you. If any topics or questions from this paper do come up, this is just lucky guessing and nothing more. ©

Ultimately the best way to prepare for the exams is to revise all topics.

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	end to the second secon
	Answer ALL questions
	Write your answers in the spaces provided
	You must write down all the stages in your working.
1	Write 7% as a fraction.
	(Total for Question 1 is 1 mark)
2	Write down the value of the 5 in the number 3856
	(Total for Question 2 is 1 mark)

3 Solve 4k = 44

k = _____(Total for Question 3 is 1 mark)

4 Write down the fraction of the shape that is shaded.

(Total for Question 4 is 1 mark)



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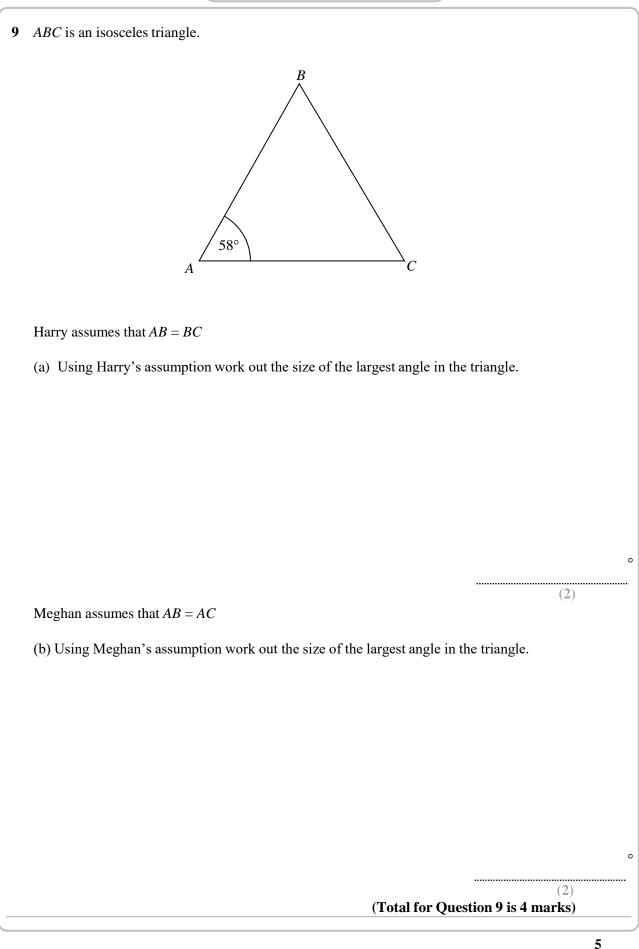
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5	Here is a list of num	bers.						
		3	5	8	9	15	20	
	(a) From the list, wr	ite down	a factor	r of 10				
								(1)
	(b) From the list, wr	ite down	a squar	e number	ſ			(1)
	(c) From the list, wr	ite down	a cube	number.				(1)
						(Tota	al for Ouest	(1) ion 5 is 3 marks)
6	(a) Simplify $p \times p$	$\times p \times p$	× p					
			0					(1)
	(b) Simplify $7b + 5$	5c - 3b - 1	9 <i>c</i>					(1)
		5c – 3b – 1	9 <i>c</i>					(1)
		5c – 3b –	9 <i>c</i>					(1)
		5c - 3b - 1	9 <i>c</i>					(1)
		5c – 3b –	9 <i>c</i>					(1)
		5c – 3b –	9 <i>c</i>			(Tot:	al for Quest	(1) (2) tion 6 is 3 marks)



Gail's phone company cha	arges 12p for each minute that she spend	ds making phone calls.
During one month Gail sp	ends $2\frac{1}{4}$ hours making phone calls.	
Work out how much Gail	will need to pay for the phone calls duri	ing this month.
		£
	(Total f	for Question 7 is 3 marks)
(a) Expand $5(m+6)$		
		(1)
(b) Factorise $18 - 3n$		
	(10tal)	for Question 8 is 2 marks)
4		

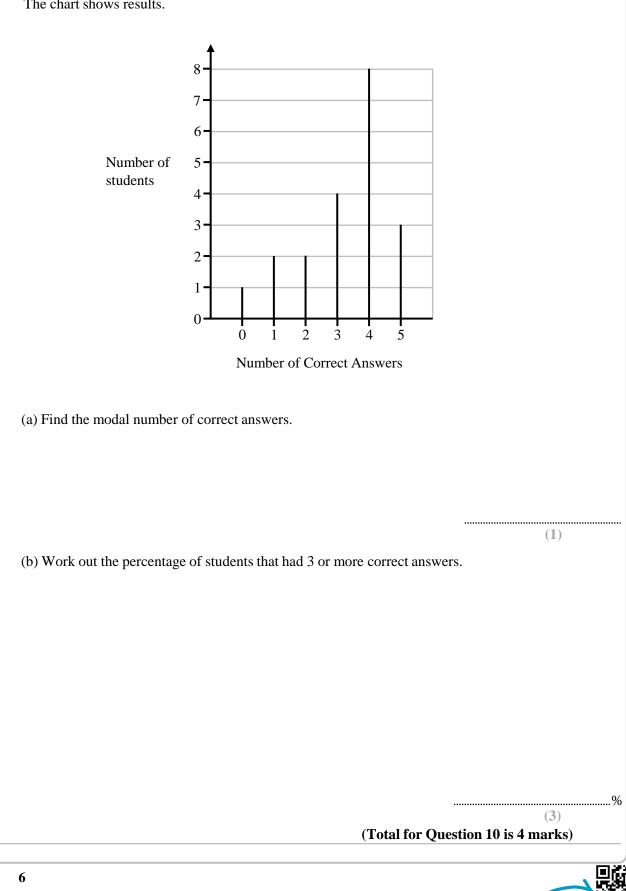






10 A class of 20 students each answered 5 quiz questions.

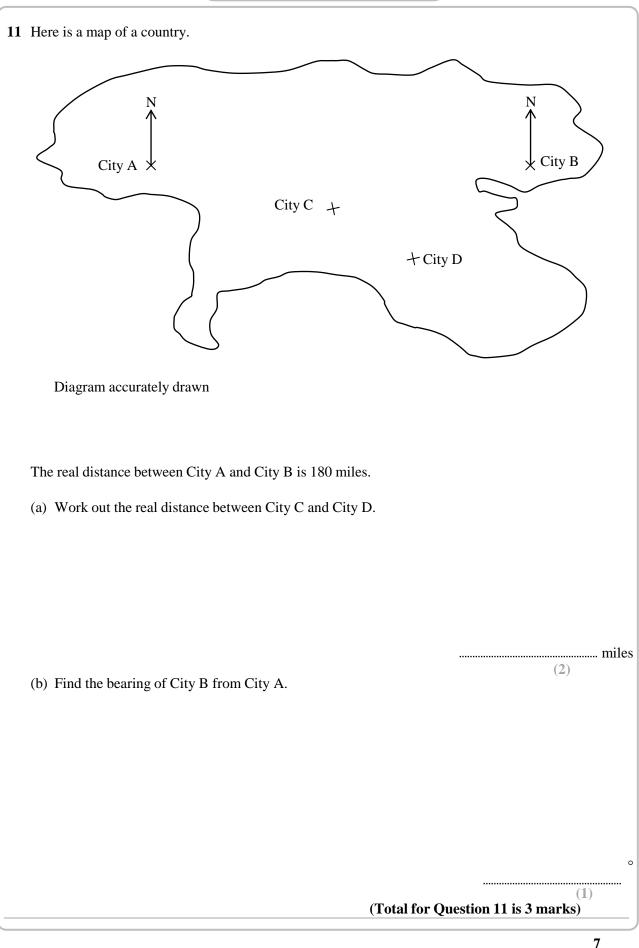
The chart shows results.



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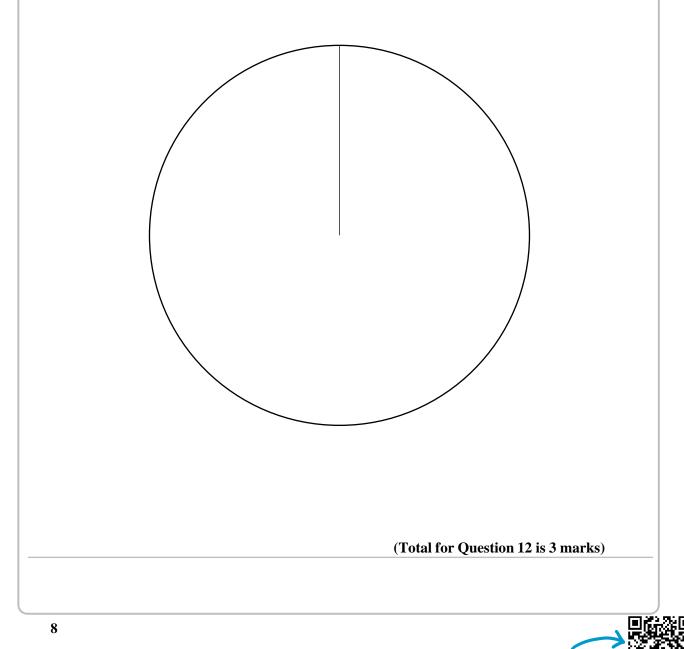




12 The table below shows information about the favourite subject of some students

Subject	Frequency
Maths	28
English	10
Science	13
Other	9

Draw an accurate pie chart for this information.

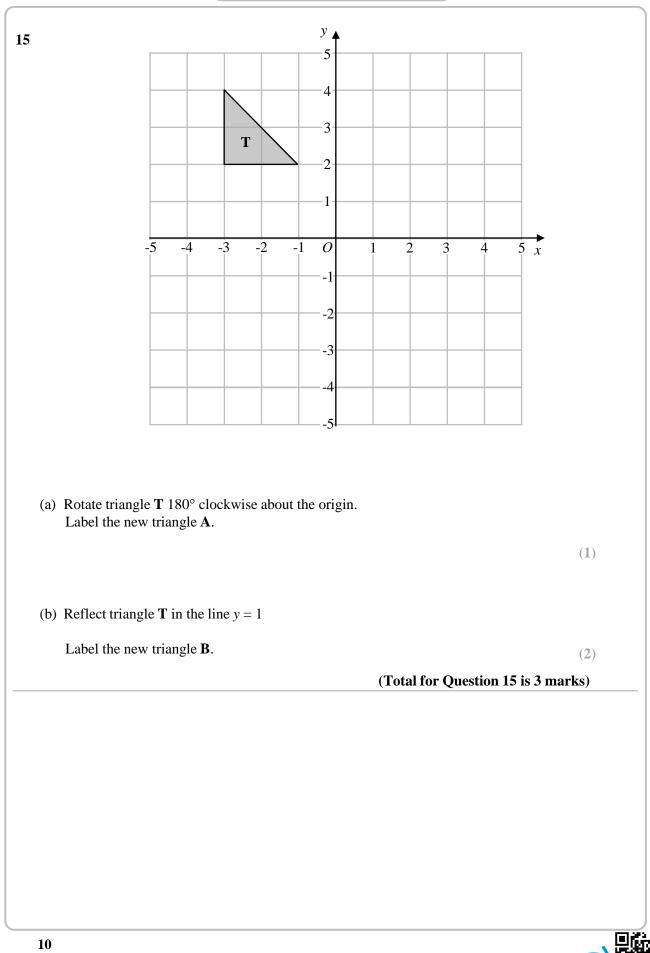


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13 A bag contains counters that are either red or blue.							
$\frac{1}{5}$ of the count	ers in the b	ag are red.					
(a) Write dow	(a) Write down the ratio of red counters to blue counters in the bag.						
	.1 1		11			(1)	
		re either large o	r small.				
27 of the coun 6 of the counte	-						
			small counters.				
Give your ans	wer in the f	orm $n : 1$					
				(Total for Ques	stion 13 is 3 ma	(2) rks)	
14 60 Year 9 stud	lents and 40) Year 11 stude	nts were asked w	hat their favouri	ite science was.		
5 of the 12 stu 66 students sa		said Biology w	ere in Year 11.				
		said Chemistry.					
4 Complete the							
		Biology	Chemistry	Physics	Total		
	Year 9						
Y	'ear 11						
	Total]	
				(Total for Ques	stion 14 is 3 ma	rks)	

9





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Here is a sequence of p	patterns made with coun	iters.	
pattern number 1	pattern number 2	pattern number 3	pattern number 4
0			
(a) Draw pattern numb	per 4 in the space above		
			(1)
(b) Work out how man	y counters will be need	ed for pattern 100.	
		(Total for O	(3) Jestion 16 is 4 marks)



17 $\pounds 1 = \$1.28$

A mobile phone costs £350 in the United Kingdom. The same mobile phone costs \$400 in the USA.

The delivery cost for the phone in the United Kingdom is $\pm x$ The delivery cost for the phone in the USA is \$64

The total cost for the mobile phone and delivery is the same in both countries. Work out the value of x.

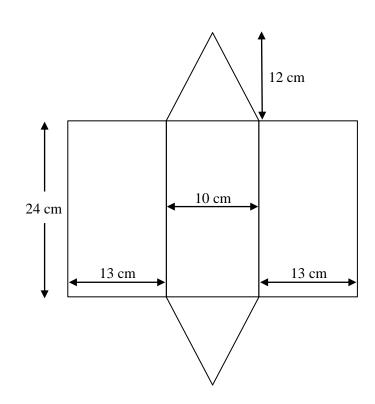
x = _____

(Total for Question 17 is 3 marks)



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18 Here is the net of a triangular prism made from 3 rectangles and 2 isosceles triangles.



Work out the total surface area of the triangular prism.

..... cm² (Total for Question 18 is 4 marks)

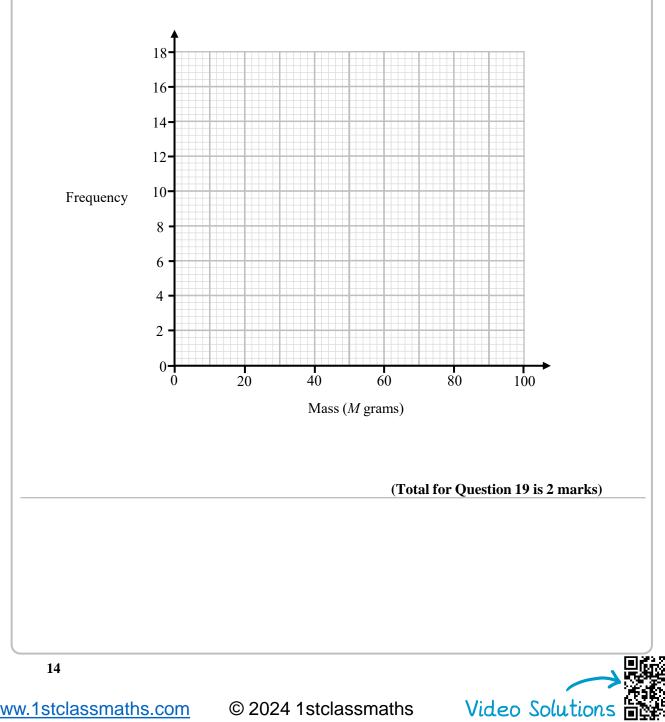
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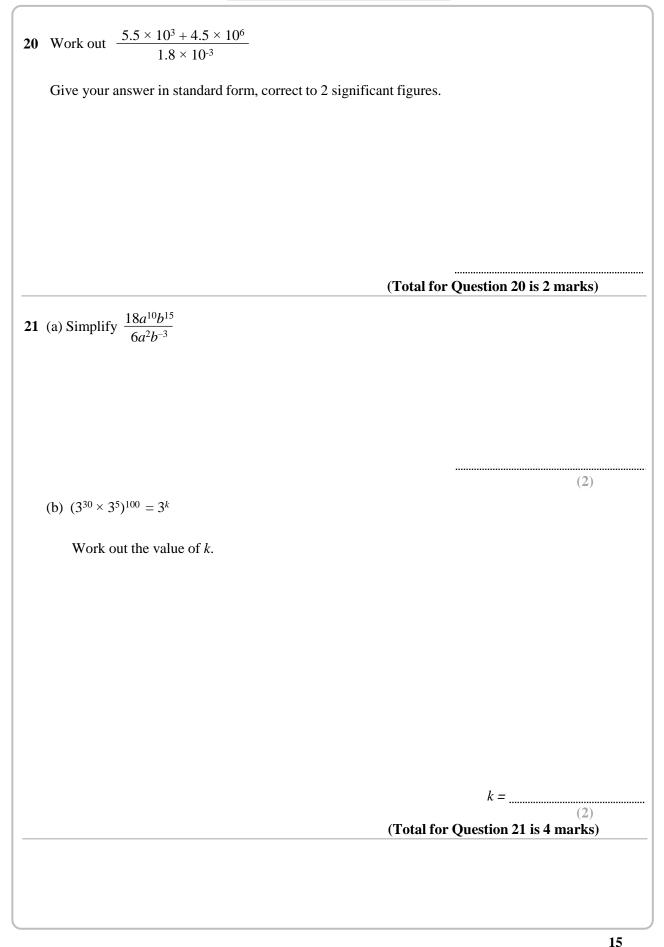
19 The table shows information about the mass, M grams, of 40 carrots in bag

Mass (M grams)	Frequency
$0 < M \le 20$	2
$20 < M \le 40$	5
$40 < M \le 60$	8
$60 < M \le 80$	16
$80 < M \le 100$	9

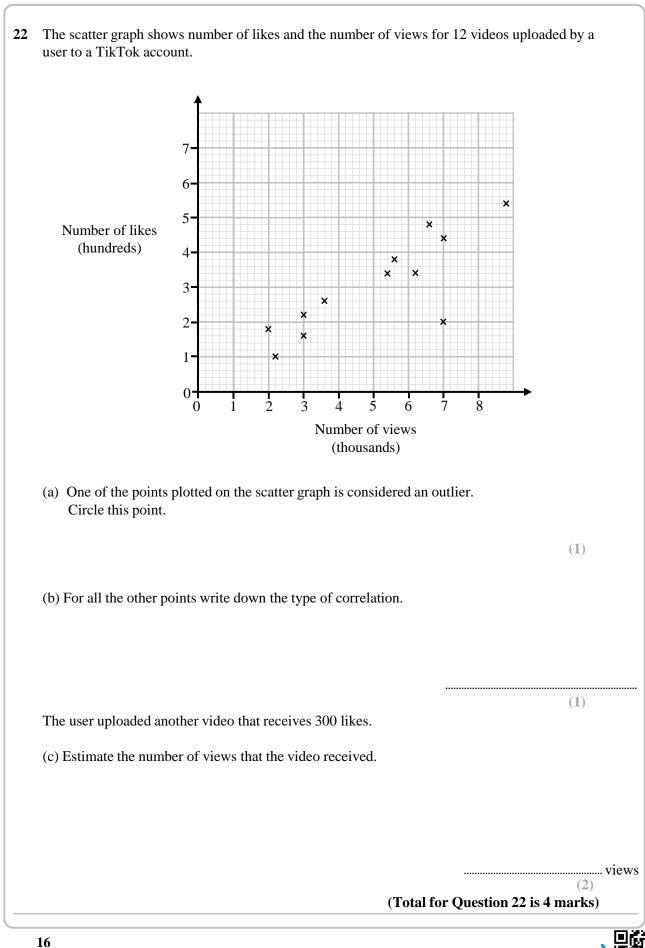
On the grid, draw a frequency polygon for the information in the table.



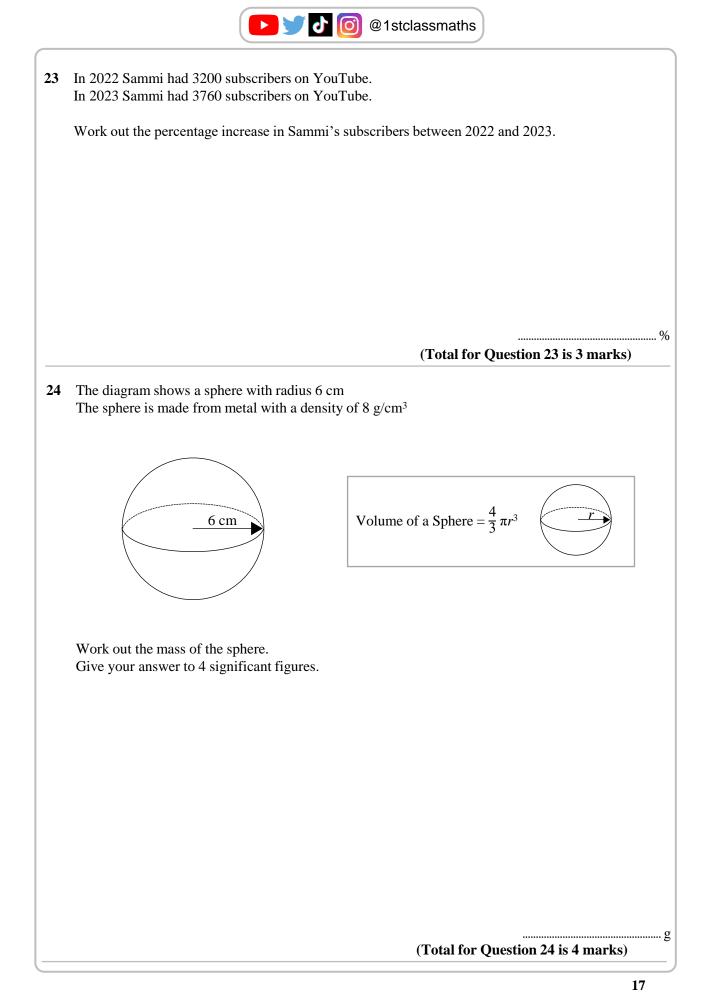






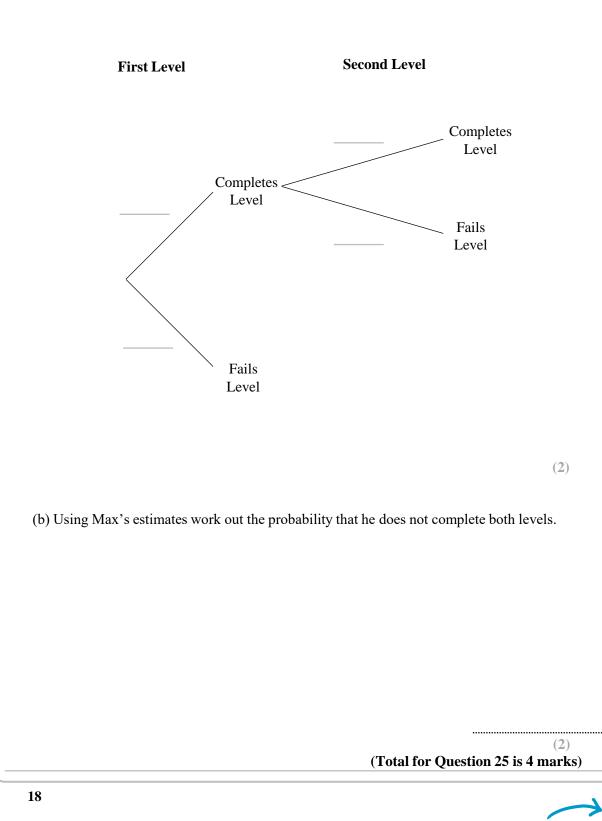


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- 25 Max is playing a computer game with two levels.If Max completes the first level, he will be able to attempt the second level.If Max fails the first level, he will not be able to attempt the second level.Max estimates that his probability of completing the first level is 0.4If Max gets to play the second level, he estimates his probability of completing it to be 0.3
 - (a) Complete the probability tree diagram



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26 Some of the ingredients needed to make 12 flapjacks are shown below.

For 12 flapjacks				
Oats	250 g			
Butter	125 g			
Sugar	125 g			
Syrup	3 tablespoons			

(a) Work out how much butter is needed to make 42 flapjacks.

Kian has 1.2 kg of butter.

(b) Work out the maximum number of flapjacks that Kian can make. Assume that Kian has enough of each of the other ingredients.

(Total for Question 26 is 4 marks)

(2)

......g

