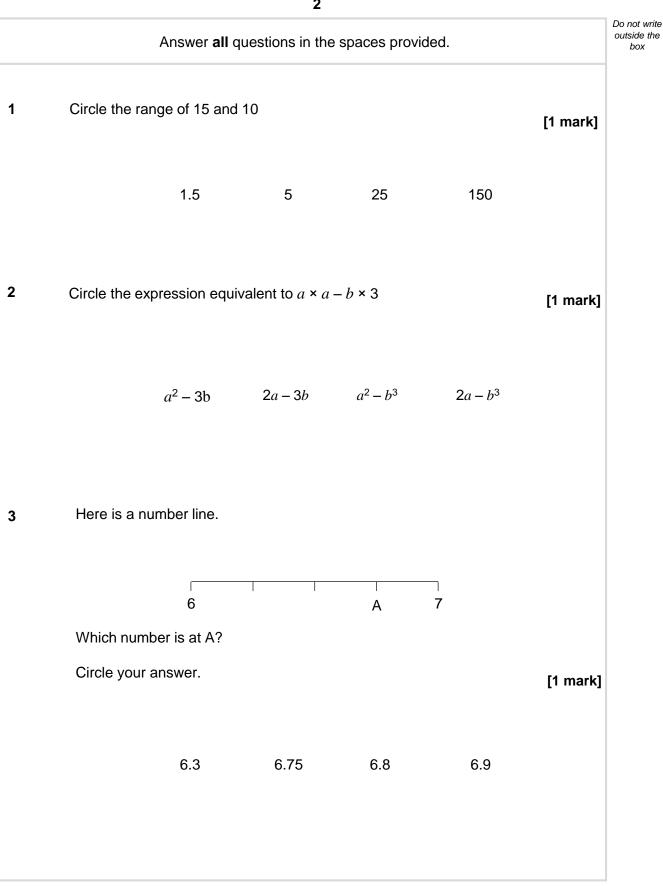
Class Maths	PREDIC PAPE		Vid		Itions
Centre Number Surname Forename(s) Signature	Ca	ndidate Number			
GCSE MATHEMATICS		Allowed			F
Foundation Tier Paper Tuesday 7 June 2022	Morning	Time allowe	ed: 1	hour 30	minutes
· · · ·			ed: 1 ) г		
Tuesday 7 June 2022			ed: 1	For tea	cher use
Tuesday 7 June 2022 Student Self Reflection			ed: 1	For tead	
Tuesday 7 June 2022 Student Self Reflection			ed: 1	For tea	cher use
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Tuesday 7 June 2022 Student Self Reflection			ed: 1	For tead Pages 2-3 4-5	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead Pages 2-3 4-5 6-7	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead Pages 2-3 4-5 6-7 8-9	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead Pages 2-3 4-5 6-7 8-9 10-11	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead Pages 2-3 4-5 6-7 8-9 10-11 12-13	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead         Pages         2-3         4-5         6-7         8-9         10-11         12-13         14-15	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i> Topics I need to <i>learn</i>			ed: 1	For tead Pages 2-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19 20-21	cher use
Tuesday 7 June 2022 Student Self Reflection Topics I need to <i>revise</i>			ed: 1	For tead Pages 2-3 4-5 6-7 8-9 10-11 12-13 14-15 16-17 18-19	cher use

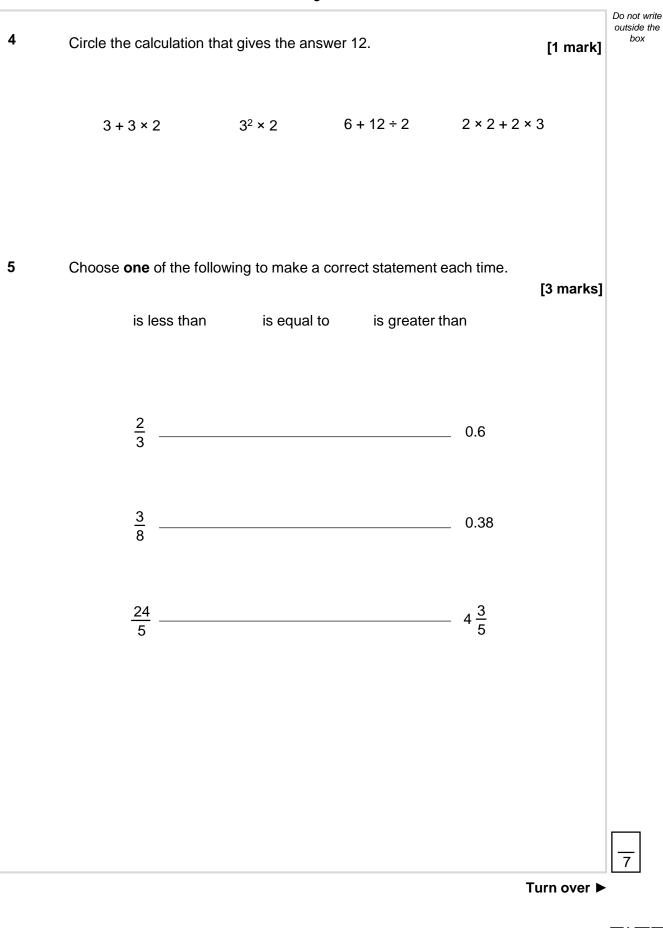
2







3



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			Do not write outside the
6	335 students attend a school trip.		box
	A coach can take 62 students. The school hires 4 coaches.		
	Any remaining students will attend on minibuses.		
	Each minibus can hold 14 students.		
	Work out how many minibuses the school needs to hire.	[3 marks]	
	Answer		
7	Hannah goes to the cinema to watch a film.		
	At 2:25pm the adverts start and last for 15 minutes.		
	After the adverts the film beings and lasts for 1 hour and 37 minutes.		
	At what time does the film finish?	[2 marks]	
	Answer		





8 Alvin, Simon and Theo all collect marbles.

Alvin has k marbles.

Simon has 3 more marbles than Alvin.

Theo has twice as many marbles as Alvin.

Complete the table by writing an expression in for Simon and Theo.

## [2 marks]

Do not write outside the box

Person	Number of marbles
Alvin	k
Simon	
Theo	

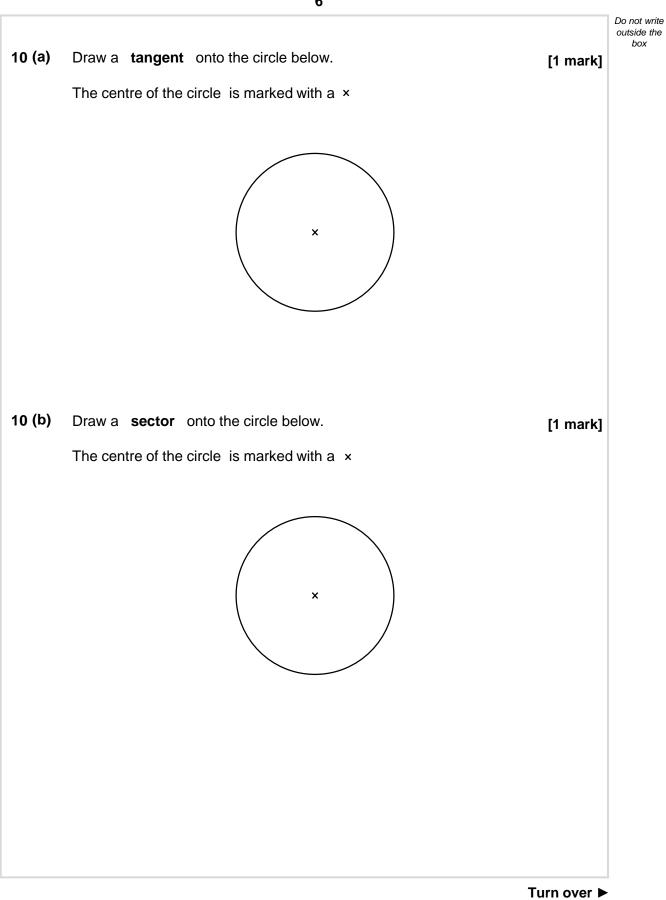
Answer	



9



6

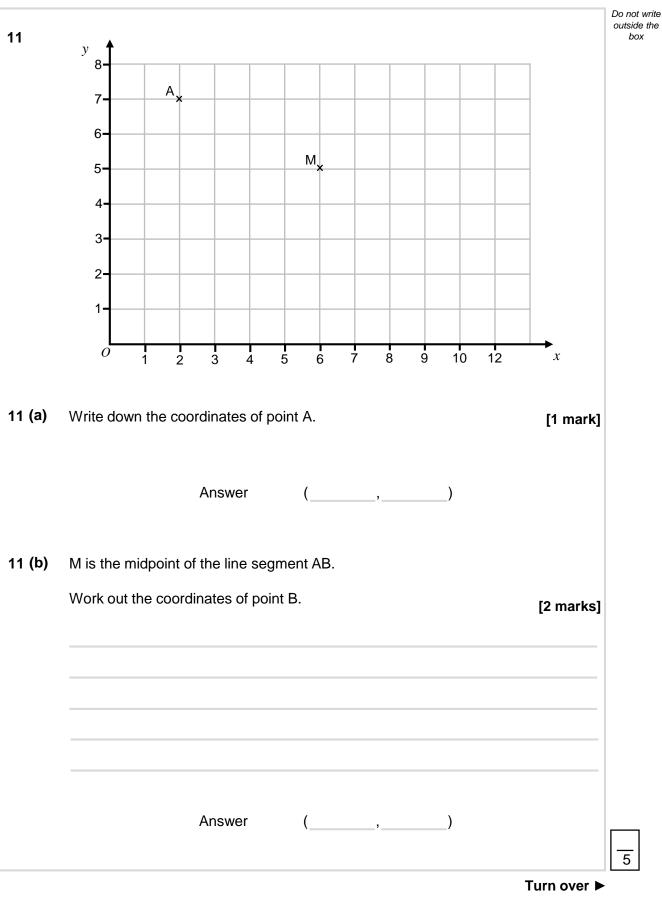




box











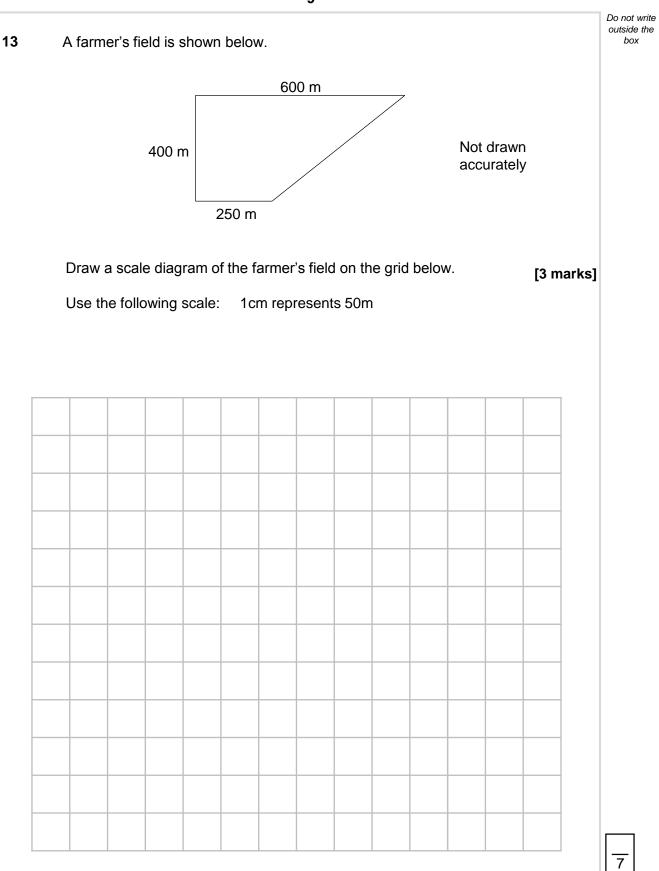
8

Ashleigh needs to buy 16 apples. The prices in the supermarket are shown below. Single apple 25p	
Single apple 25p	
Pack of 5 apples £1.20	
Pack of 8 apples £1.95	
What is the cheapest price for 16 apples.	[4 marks]
Answer £	













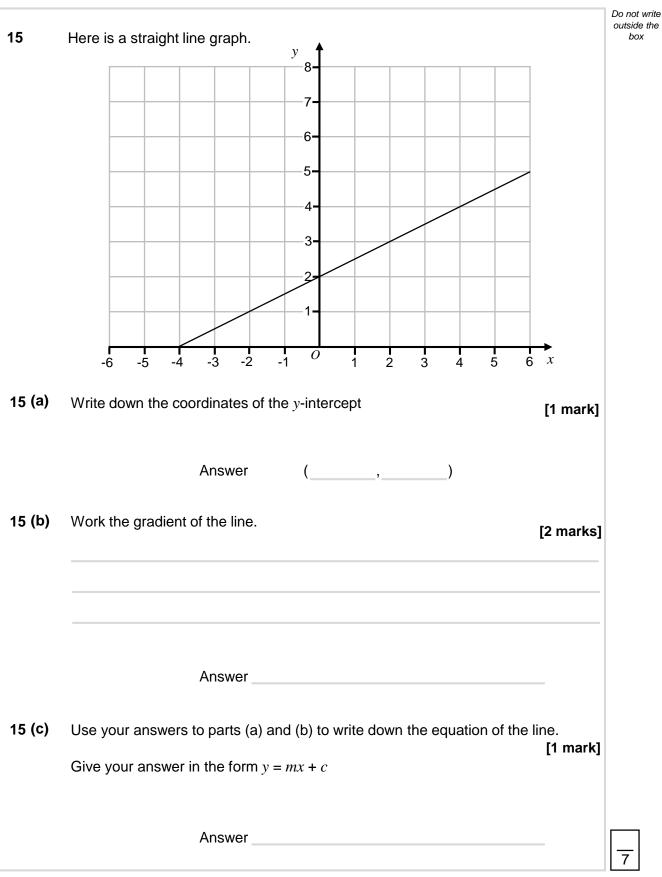
10

	It has a width of 9cm and perpendicular height <i>h</i> .    9 cm Not drawn accurately   8 identical parallelograms are used to make a compound shape below.    Image: Calculate the value of <i>h</i> .   [3 marks]	10
9 cm       Not drawn accurately         8 identical parallelograms are used to make a compound shape below.         Image: Compound shape is 432 cm²         Calculate the value of h.         [3 marks]	9 cm       Not drawn accurately         8 identical parallelograms are used to make a compound shape below.         Image: Compound shape is 432 cm²         Calculate the value of h.       [3 marks]         Image: Compound shape is 432 cm²	Here is a parallelogram.
A Not drawn accurately         8 identical parallelograms are used to make a compound shape below.         Image: Compound shape is 432 cm²         Calculate the value of h.         Image: Calculate the value of h.	A Not drawn accurately         8 identical parallelograms are used to make a compound shape below.         Image: Compound shape is 432 cm²         Calculate the value of h.         [3 marks]	It has a width of 9cm and perpendicular height $h$ .
The area of the compound shape is 432 cm <sup>2</sup> Calculate the value of <i>h</i> .	The area of the compound shape is 432 cm <sup>2</sup> Calculate the value of <i>h</i> . [3 marks]	✓ ↑ Not drawn
Calculate the value of h. [3 marks]	Calculate the value of <i>h</i> .           [3 marks]	8 identical parallelograms are used to make a compound shape below.
Calculate the value of h. [3 marks]	Calculate the value of <i>h</i> .           [3 marks]	
		Calculate the value of $h$
Answercm	Answercm	
Answercm	Answer cm	
Answercm	Answer cm	











A sweet shop sells 150g of sweets for £1.32	
Work out the cost of buying 475g of sweets.	[3 marks]
Answer £	
A bag contains blue and yellow counters.	
84% of the counters are blue.	
Write the ratio of blue counters to yellow counters.	
Give your answer in the form $n: 1$	[2 marks]
Answer:	

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13

		Do not write
18	Here is a parallelogram.	outside the box
	Below are statements about parallelograms.	
	Tick the correct box for each statement. [3 marks]	
	Always Could be Never True True True All sides are equal in length	
	Opposite angles are equal in size	
	Adjacent angles add to 180°	
19	The ratio of males to females in a class is 2 : 3 [1 mark]	
	To the nearest percent, what percentage of the class are females? Circle your answer.	
	40% 47% 60% 67%	9



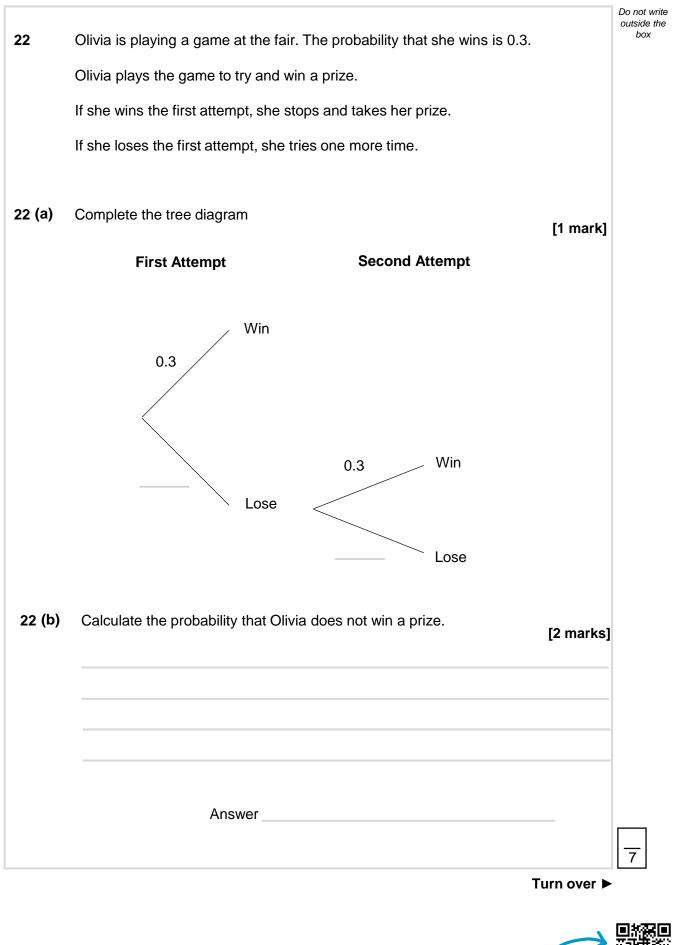


Harpreet thinks of	a decimal number.		
$\frac{4}{5}$ of his number =	$=\frac{1}{4}$ of 60		
Work out Harpreet	's number.		[3 marks]
	Answer		
The point (3, 2) lies		e of the equations below	<sup>v.</sup> [1 mark]
y = 2x - 4	y = 2x + 1	y = 2x + 4	y = 2x - 1





## 15



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16

23 Jim is playing Chess against a computer.

He records his results of the first 20 games in the table below.

Wins	7
Draws	2
Losses	11

23 (a) Write down the relative frequency of wins.

Answer

**23 (b)** Jim plays a total of 400 games against the computer before retiring.

Use your answer to part (a) to estimate the number of times that Jim won.

[1 mark]

Do not write outside the box

Answer

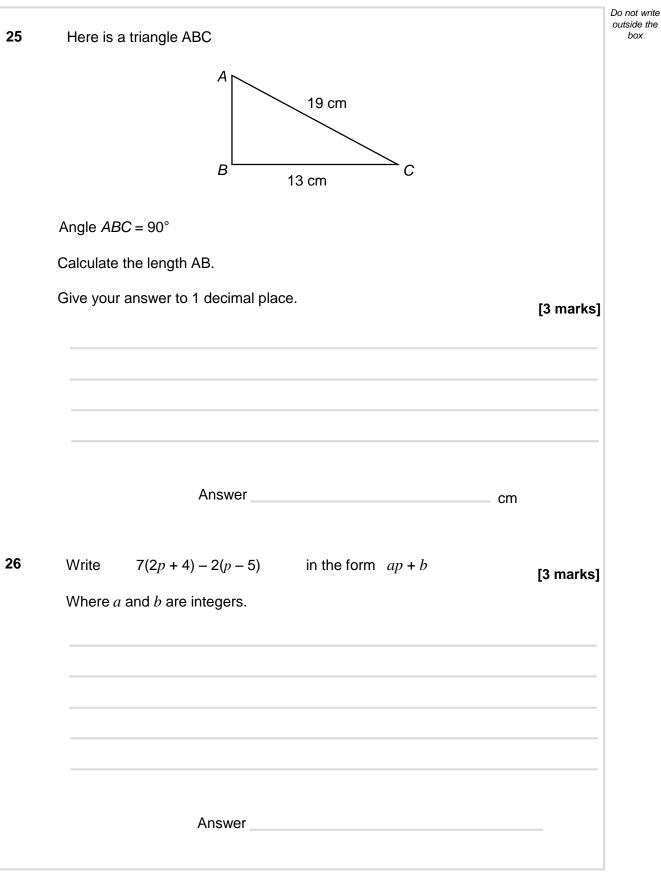




			17		Deret
24	The table shows the s	hare price for a	company during 、	January and March.	Do not writ outside the box
		January	£3.00		
		February			
		March	£1.08		
	From January to Feb	ruary the share p	price increased by	y 20%	
24 (a)	Calculate the share p	rice for February	<i>.</i>	[2 mark	s]
					-
					-
					-
		Answer			
24 (b)	Calculate the percent	age decrease in	the share price fi	rom February to March. [2 mark	s]
					_
					-
					-
	/	Answer		%	
				Turn over	7
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18







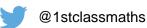
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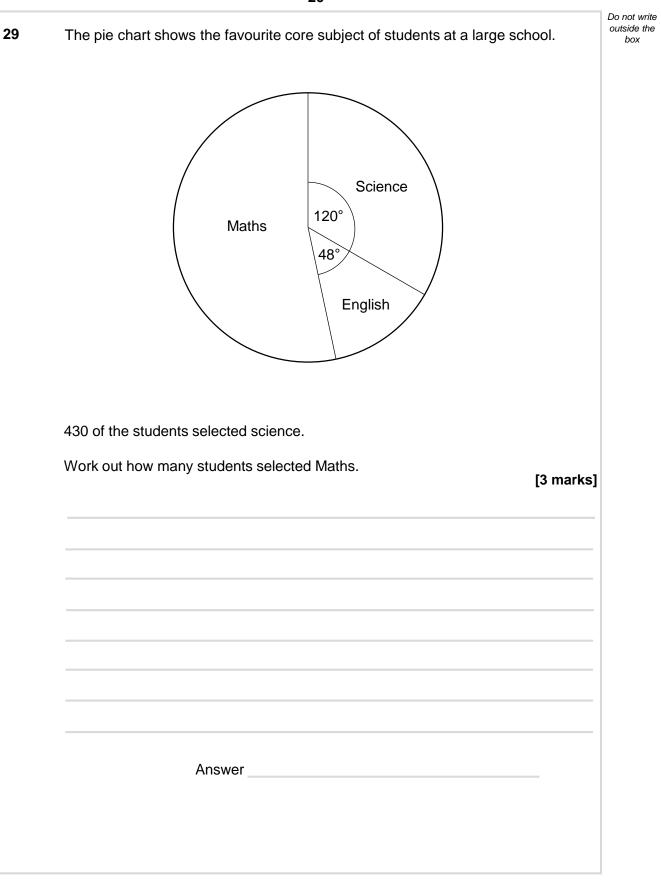
x + 7 = 22		Do not wri outside th box
$\begin{aligned} x + y &= 22 \\ y &= 18 \end{aligned}$		
What percentage of <i>y</i> does <i>x</i> represent?	[3	marks]
Answer	%	
A vet records the mass of dogs that visit their surgery.		
The mean mass of the first 8 dogs is 34.2 kg.		
The next dog to come in has a mass of 27kg.		
Calculate the mean mass of all 9 dogs.	[3	3 marks]
Answer	kg	
		<u>12</u> n over ►

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21

		_
		Do not write outside the
30	P is a prime number.	box
	C is a cube number.	
	C = 2P + 1	
	C = 21	
	Find a possible set of values for <i>P</i> and <i>C</i> .	
	[3 marks]	
	<i>P</i> = <i>C</i> =	
	Turn over for next question	
	Turn over for next question	
		6
		0





2	2
~	~

Machine A can produce a can every 2 seconds. Machine B can produce a can every 1.2 seconds.
A company needs to produce 2480 cans.
Both machines on turned on together at 1pm and they start producing cans.
At 1:25pm Machine B is turned off due to overheating. Machine A continues producing the cans.
At what time will the required number of cans be produced? [4 marks]
Answer
END OF QUESTIONS

