

1380/1F Edexcel GCSE

Mathematics (Linear) – 1380

Paper 1 (Non-Calculator)

Foundation Tier

Exam	iner's us	e only
Team L	eader's u	ise only

Wednesday 9 November 2011 – Afternoon Time: 1 hour 30 minutes

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used. Items included with question papers

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page.

Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 25 questions in this question paper. The total mark for this paper is 100. There are 28 pages in this question paper. Any blank pages are indicated. Calculators must not be used.

Advice to Candidates

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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Turn over

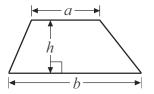


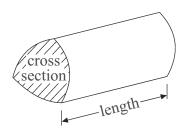
GCSE Mathematics (Linear) 1380

Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a+b)h$



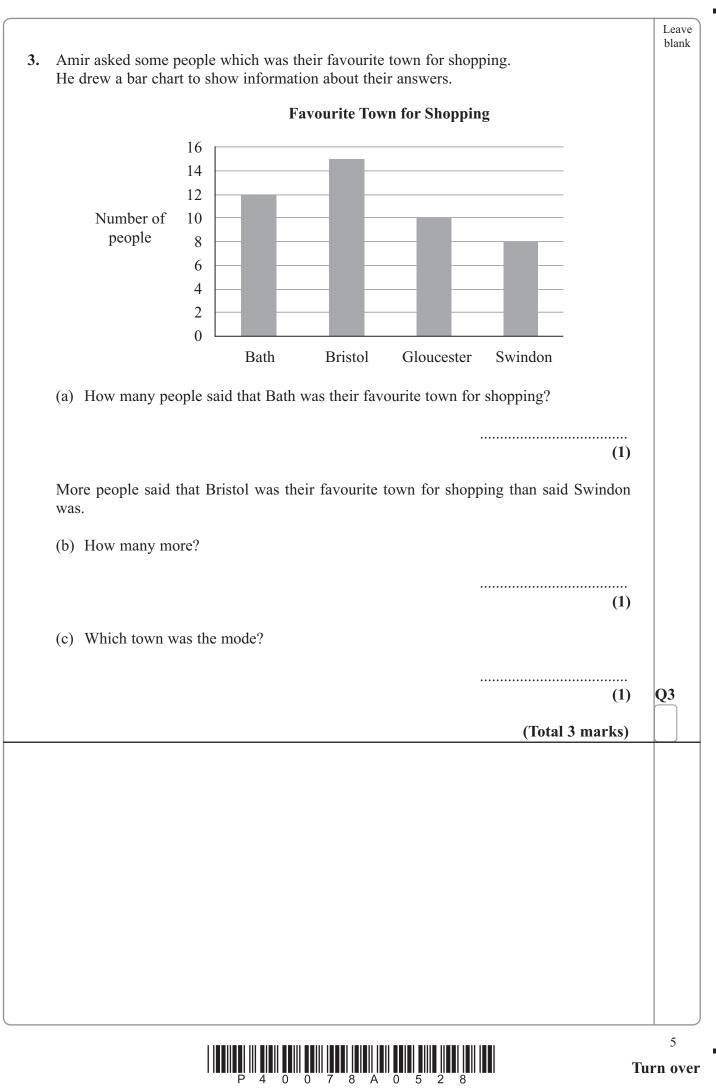


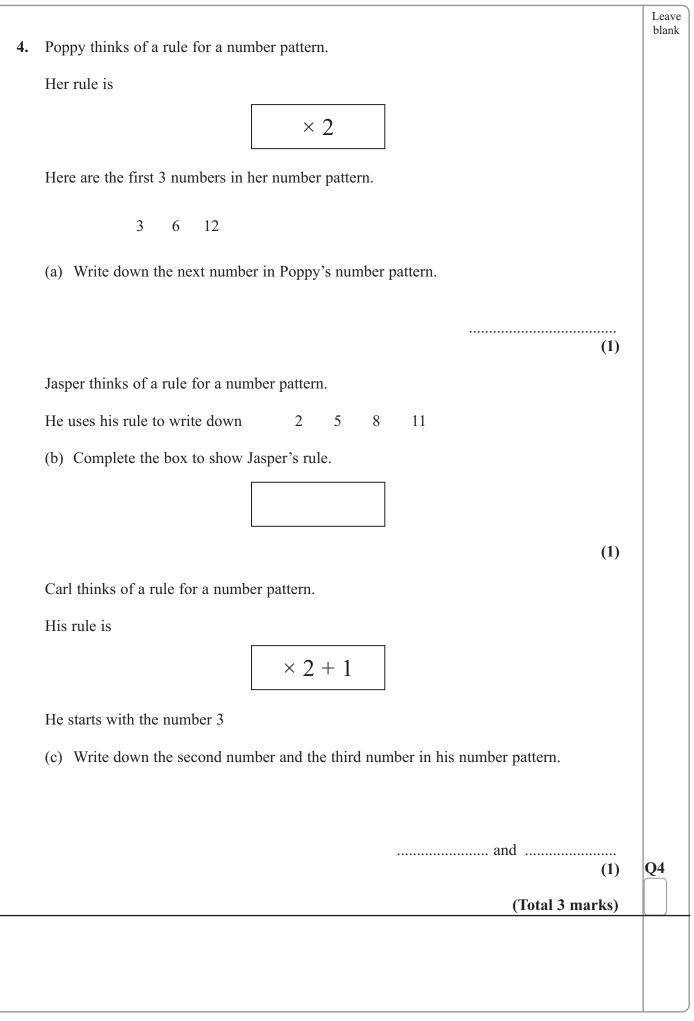
Volume of prism = area of cross section × length



	Leave blank
Answer ALL TWENTY FIVE questions.	
Write your answers in the spaces provided.	
You must write down all stages in your working.	
You must NOT use a calculator.	
1. (a) Write down the number one thousand two hundred and eighty four in figures.	
(1)	
(b) Write the number 4067 in words.	
(1)	
(1)	
(c) What is the value of the figure 2 in the number 3027?	
(1)	
(d) Write 1476 correct to the nearest hundred.	
(1)	Q1
(Total 4 marks)	
	3 rn over
P 4 0 0 7 8 A 0 3 2 8	

eginning of term a school had 960 students. end of term 23 students had left students had joined the school.	Leave blank
w many students did the school have at the end of the term?	
(2)	
ool day starts at 8 30 am and finishes at 3 30 pm.	
s have 20 minutes for morning break and 40 minutes for lunch break. s have lessons for the rest of the school day.	
rk out how many hours of lessons students have each day.	
hours (3)	Q2
(Total 5 marks)	
	nd of term 23 students had left tudents had joined the school. v many students did the school have at the end of the term? (2) ool day starts at 8 30 am and finishes at 3 30 pm. s have 20 minutes for morning break and 40 minutes for lunch break. s have lessons for the rest of the school day. ck out how many hours of lessons students have each day.





The table gives information about temperatures at 1 am in some cities on 2 days. 5. Temperature City Monday Tuesday Newcastle −11°C −3°C Leeds −3°C -12°C 2°C Cardiff -6°C -7°C 1°C London 5°C Truro −2°C (a) Write down the name of the city which had the lowest temperature on Monday. (1) (b) Work out the difference in the temperatures between Newcastle and London on Monday.°C (1) (c) Work out the increase in temperature in Truro between 1 am Monday and 1 am Tuesday.°C (1) Gareth lives in Cardiff. At 1 am Monday, he predicts that the temperature in Cardiff is going to rise by 2°C every hour. Using Gareth's prediction, (d) work out the time at which the temperature will rise to -2° C. (1) (Total 4 marks)

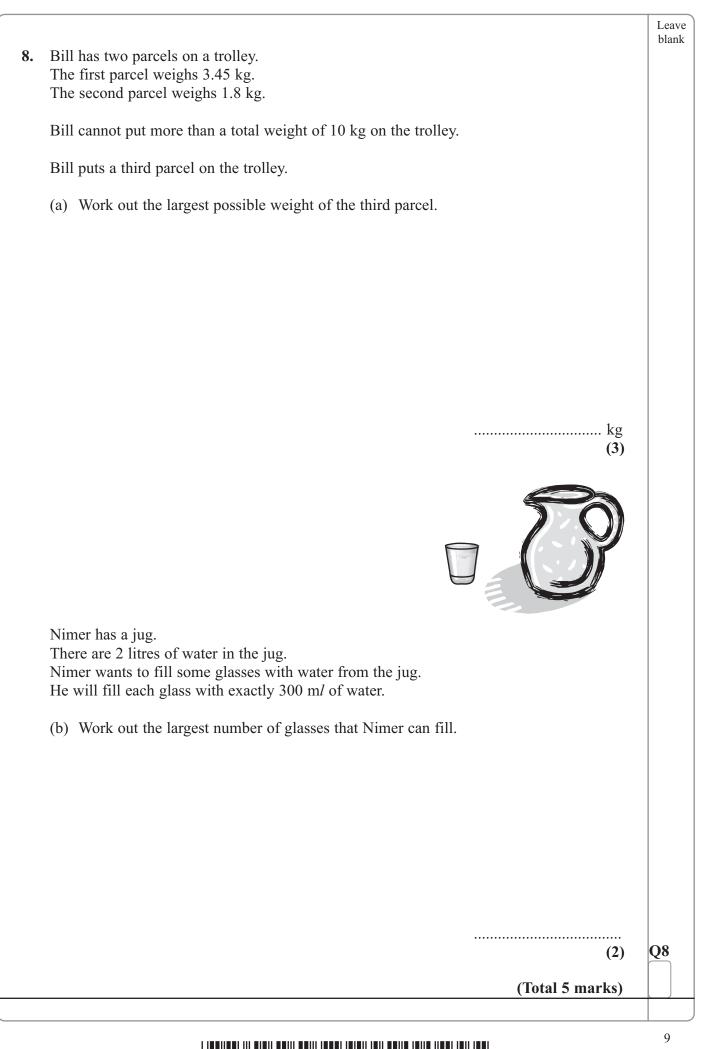


Q5

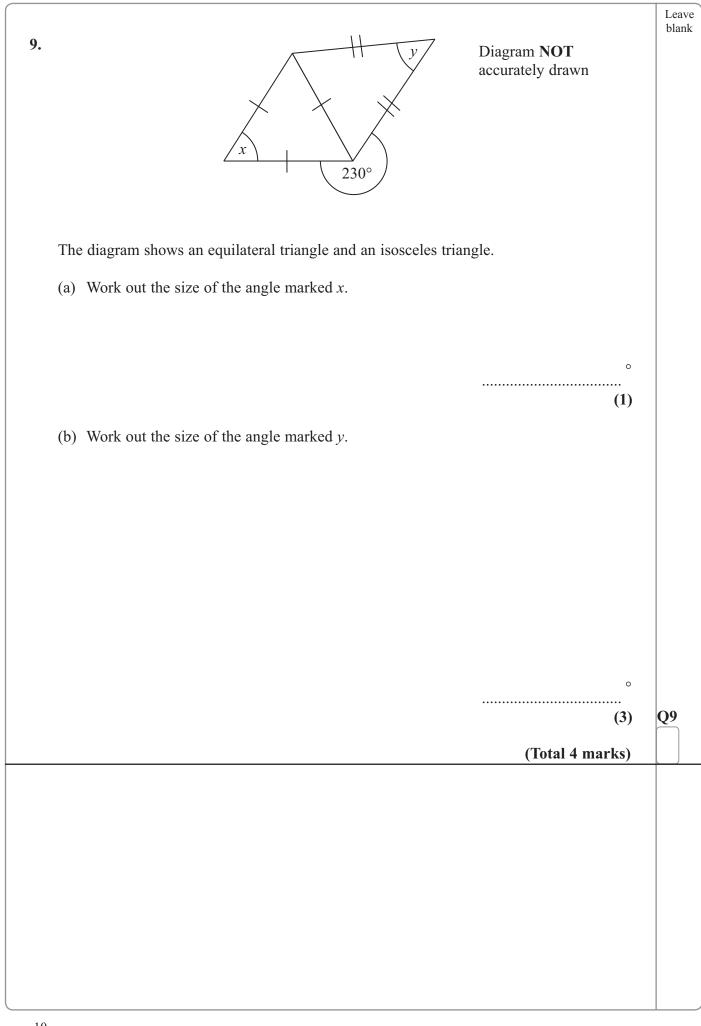
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Leave

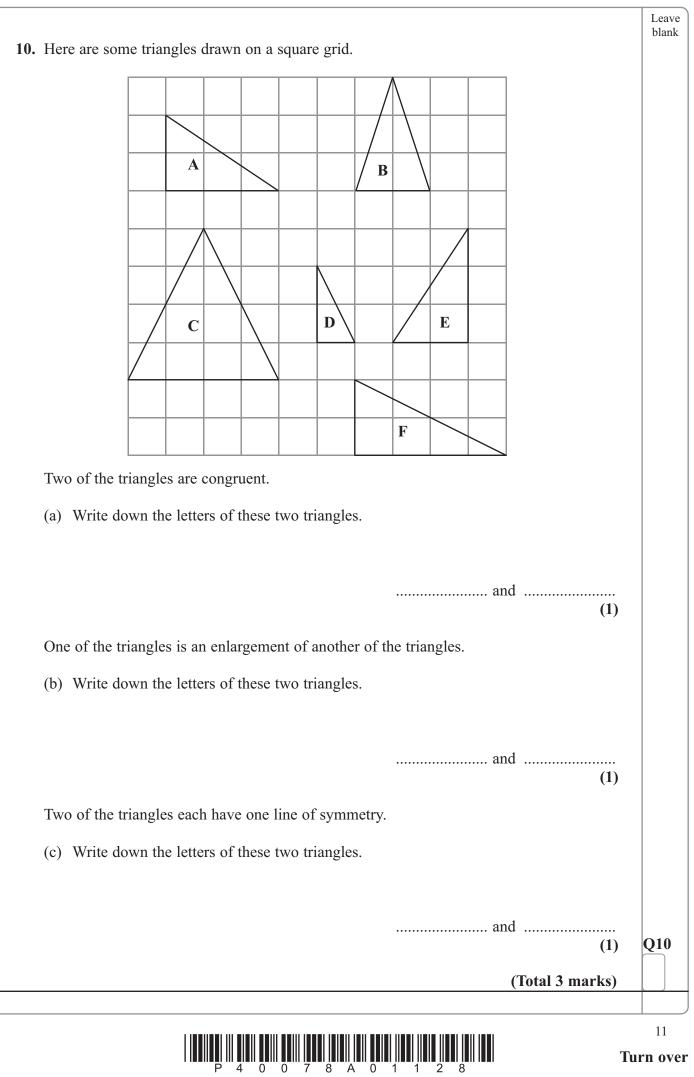
	Leave blank
The diagram shows a man and a bus. The man and the bus are drawn to the same scale. The man is of average height.	
(i) Write down an estimate for the height of the man.	
(ii) Find an estimate for the length of the bus.	
	Q6
(Total 3 mark	s)
7. (a) Work out $\frac{1}{4}$ of £24	
£	
	1)
(b) Work out 10% of 400 kg.	1)
	1)
(b) Work out 10% of 400 kg.	g
(b) Work out 10% of 400 kg.	.g 1) Q7



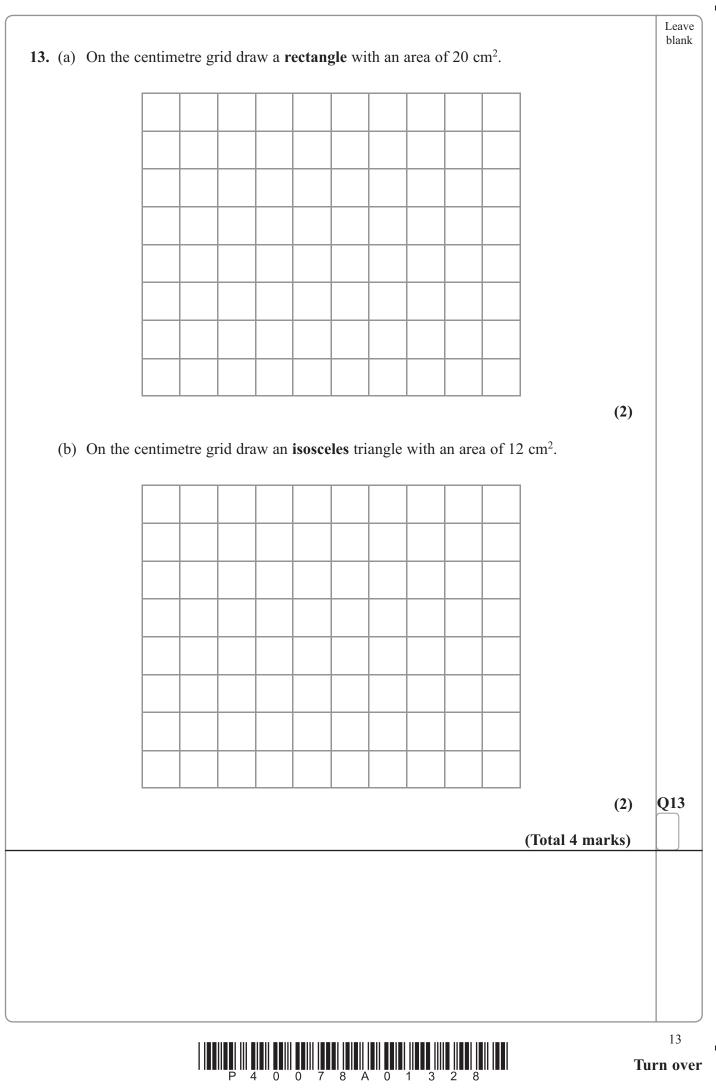
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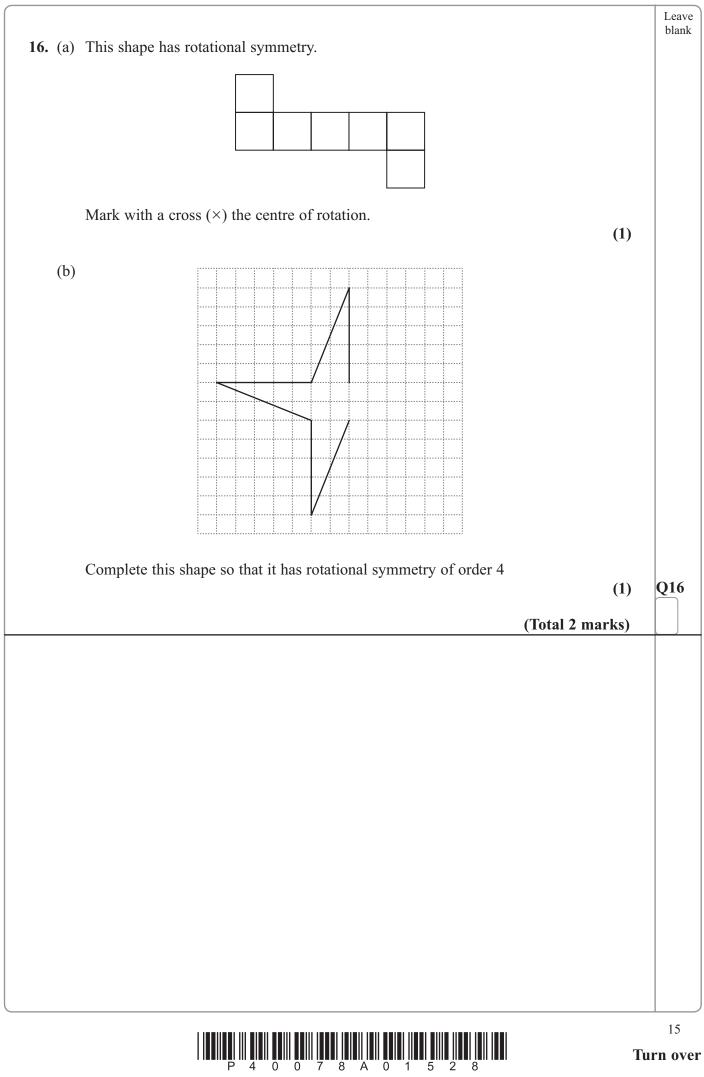
P 4 0 0 7 8 A 0 1 0 2 8



							Leave blank
11.	Evens	Unlikely	Impossible	Certain	Likely		
			est describes ea				
(a)	When you thro	ow an ordinary	dice you get a r	umber greate	r than 1		
						(1)	
(b)	When you thro	w an ordinary	coin you get a l	nead.			
						(1)	
	When you take red counter.	e out a counter	from a bag tha	t contains onl	ly blue counter	s you get a	
						(1)	Q11
					(Tota	l 3 marks)	
	n of paint costs n buys 19 tins						
Worl	k out an estima	ate for the total	cost.				
					£		Q12
					(Tota	l 2 marks)	



14. $x = 5$ and $y = \frac{1}{2}$			Lea bla
Work out the value	of		
(i) $4x + 2y$			
(ii) $10 - x^2$			
15. (a) Work out	564 - 128	(Total 3 marks)	Q1
(b) Work out	$4 \times 7 \times 5$	(2)	
		(2)	Q1



17.

Reading				
2	Slough			
28	40	Guildford		
30	22	47	Oxford	
45	28	66	25	Buckingham

(a) Write down the distance between Reading and Guildford.

..... miles (1)

Leave

Sophie drives from Slough to Guildford. She then drives from Guildford to Reading. Sophie then drives from Reading to Slough.

(b) Work out the total distance that she drives.

•		•	 •	•	•	•••			•	•	•	•	•		 •	miles
																(2)



 Izzy lives in Oxford. She has to drive to a meeting in Buckingham and then from Buckingham to Reading to pick up a friend. After she picks up her friend she will drive back to Oxford. She plans to drive at a speed of 50 miles per hour. The meeting will last 3 hours, including lunch. She leaves Oxford at 9 am. (c) Work out the time at which she should get back to Oxford. 	Leave blank
(4)	Q17
(Total 7 marks)	
 18. Jim has £x. Gemma has £4 more than Jim. Jo has £2 less than Jim. The total amount of money they have is £23 (a) Use this information to write down an equation in x. (b) Solve the equation to find how much money Jim has. 	
£(2)	Q18
(Total 4 marks)	
	17 Turn over

		Leave blank
19. Theo earns £20 one weekend.		biunk
He gives £4 to his brother.		
(a) Express £4 as a fraction of £20 Give your answer in its simplest form.		
	(2)	
Theo gives £6 to his mother.		
(b) Express £6 as a percentage of £20		
	(2)	
Theo spent the remaining $\pounds 10$ on bus fares and food. He spent $\pounds 1.50$ more on bus fares than on food.		
(c) How much did he spend on bus fares?		
	£	
	(2)	Q19
	(Total 6 marks)	
10		

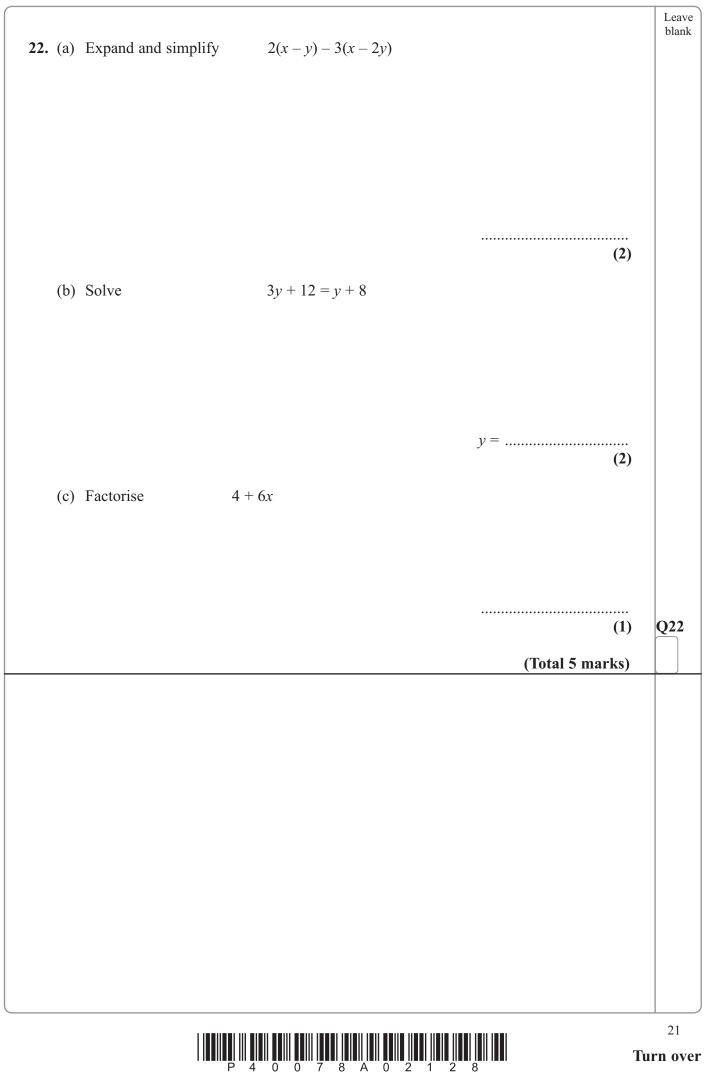
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20. Here is a number pattern.

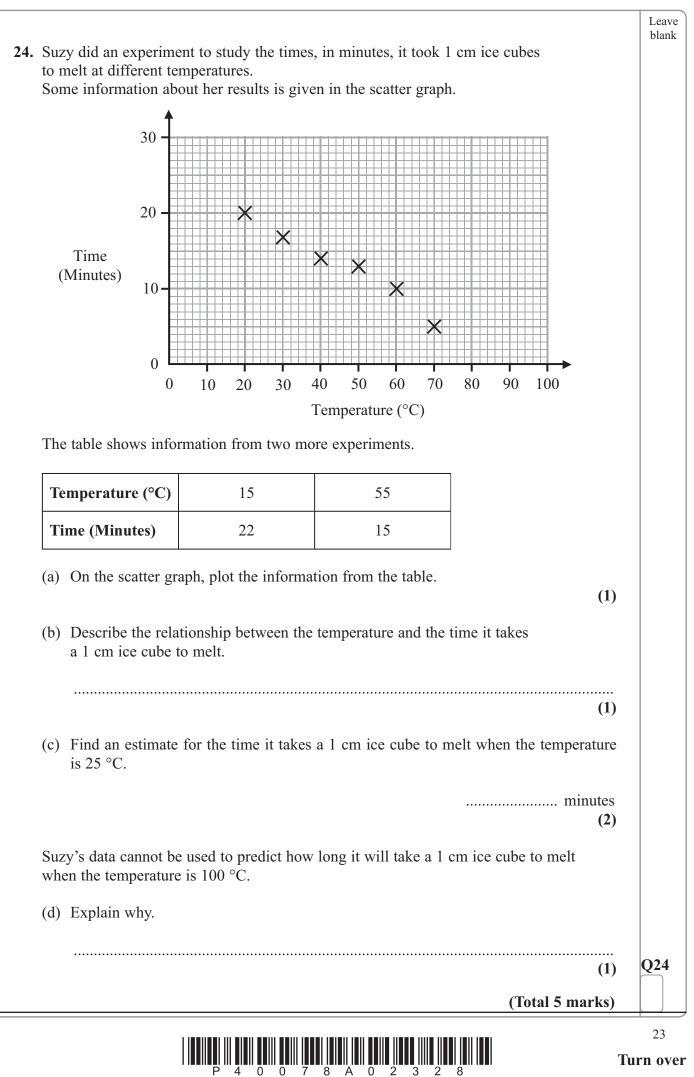
Line Number				
1	$1^2 + 3^2$	$2 \times 2^2 + 2$	10	
2	$2^2 + 4^2$	$2 \times 3^2 + 2$	20	
3	$3^2 + 5^2$	$2 \times 4^2 + 2$	34	
4			52	
10				
) Complete Li	ne Number 4 of th	e pattern.		2 - a 1
				(1)
) Complete Lii	ne Number 10 of t	he pattern.		(2)
) Use the num	ber pattern to find	the answer to $999^2 + 10$	01 ²	
) Use the num	ber pattern to find	the answer to $999^2 + 10$	01 ²	
) Use the num	ber pattern to find	the answer to $999^2 + 10$	01 ²	(2)
) Use the num	ber pattern to find	the answer to 999 ² + 10	01 ² 	
) Use the num	ber pattern to find	the answer to $999^2 + 10$		
) Use the num	ber pattern to find	the answer to 999 ² + 10		
) Use the num	ber pattern to find	the answer to 999 ² + 10		

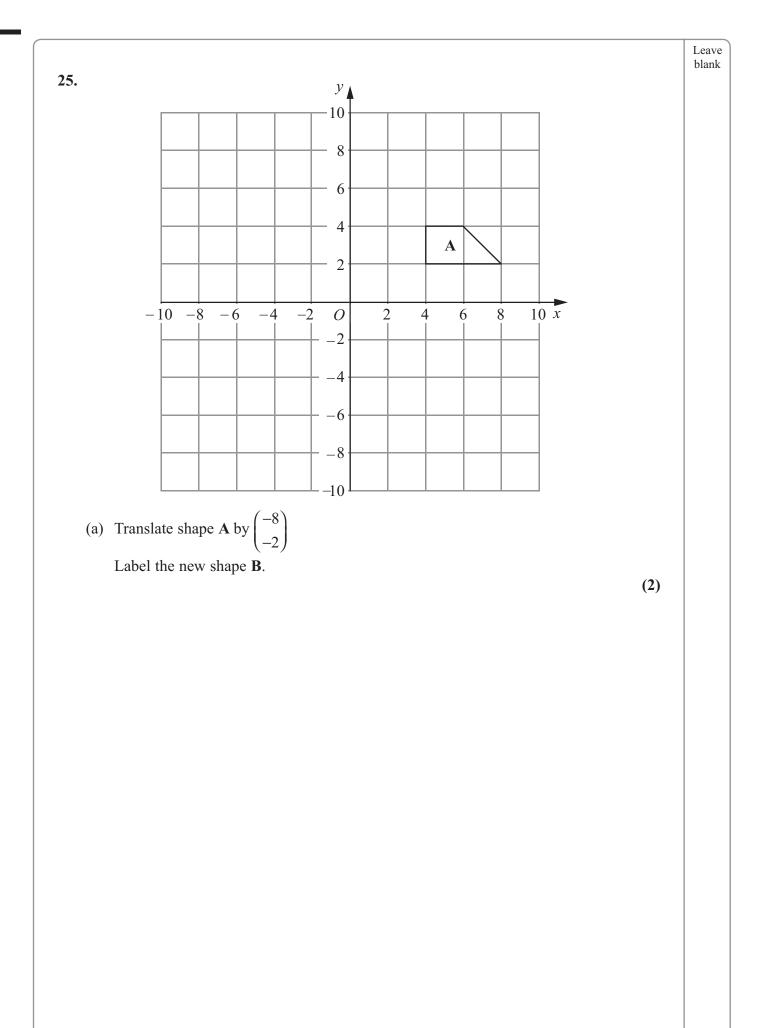


21. Jim did a survey on the lengths of caterpillars	s he found on a field trip.	Leave blank
Information about the lengths is given in the		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Key: 5 2 means 5.2 cm	
3 1 5 5 5 5 6 8 9 4 1 5		
5 2		
(a) Find the range.		
	cm (2)	
(b) Work out the median.		
	cm (2)	
A caterpillar is chosen at random from these	caterpillars.	
(c) Find the probability that this caterpillar i	s longer than 4 cm.	
	(2)	Q21
	(Total 6 marks)	
20		

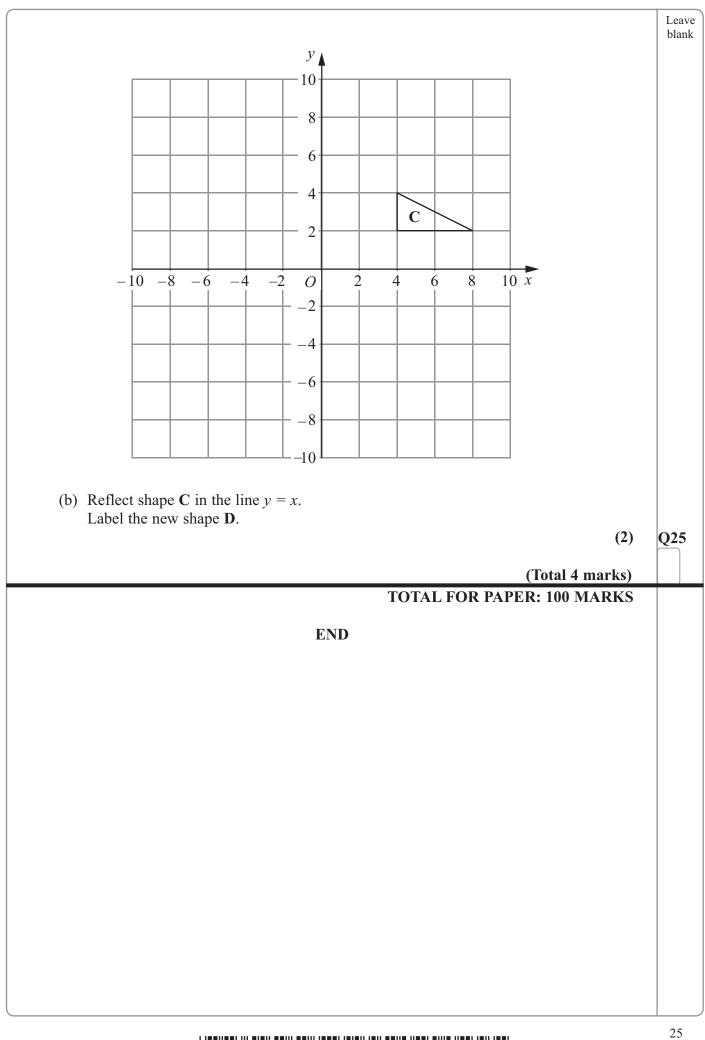


23.	Diagram NOT accurately drawn	Leave blank
The diagram shows a regular hexagon and a square.		
Calculate the size of the angle <i>a</i> .		
	۰ (Total 4 marks)	Q23









P 4 0 0 7 8 A 0 2 5 2 8