

# **Edexcel GCSE**

1380/1F

# 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

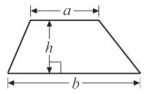
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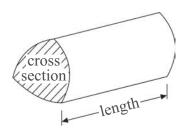
### **GCSE Mathematics (Linear) 1380**

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



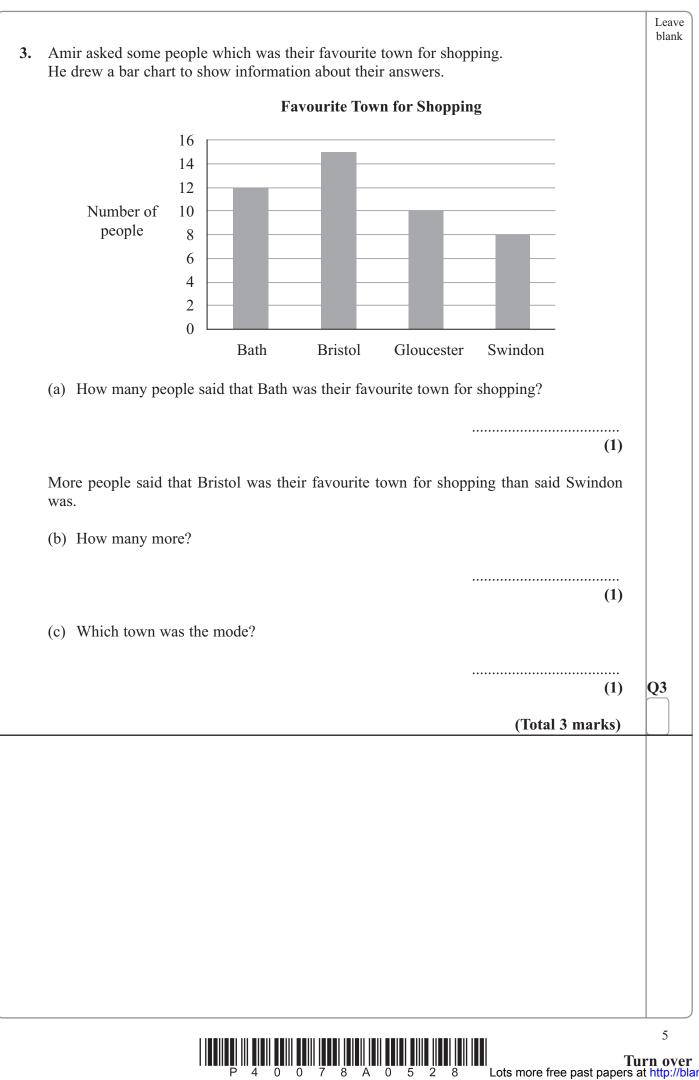


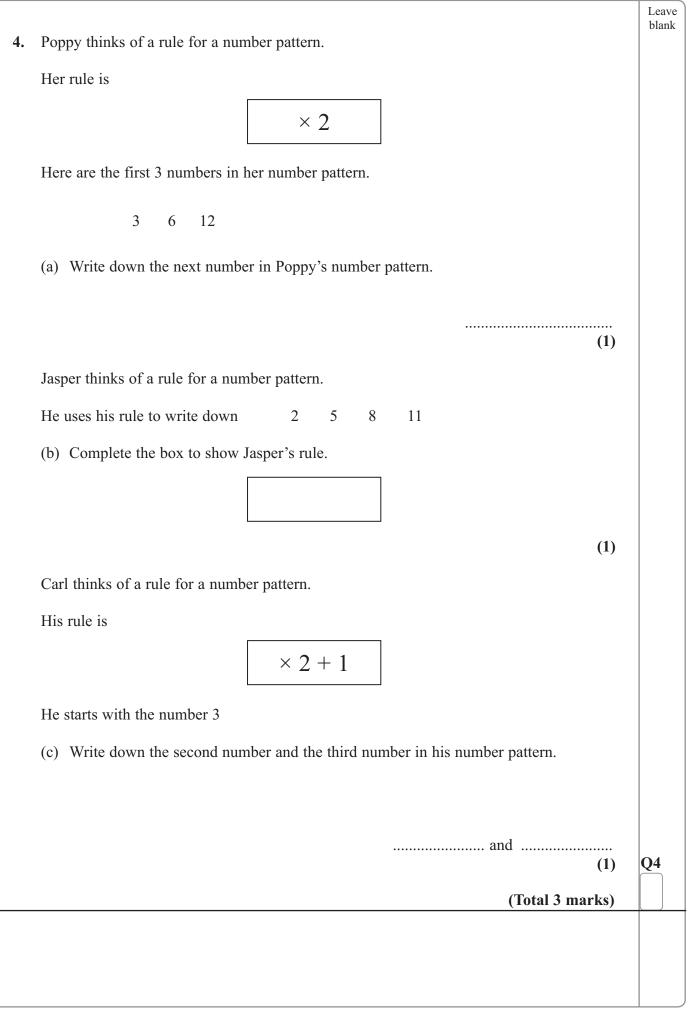
**Volume of prism** = area of cross section × length



Answer ALL TWENTY FIVE questions.	Leave blank
Write your answers in the spaces provided.	
You must write down all stages in your working.	
You must NOT use a calculator.	
<b>1.</b> (a) Write down the number <b>one thousand two hundred and eighty four</b> in figures.	
(1)	
(b) Write the number 4067 in words.	
(c) What is the value of the figure <b>2</b> in the number 3027?	
(c) what is the value of the figure 2 in the humber 5027.	
(1)	
(d) Write 1476 correct to the nearest hundred.	
(1)	Q1
(Total 4 marks)	
	3

2.	At the beginning of term a school had 960 students. By the end of term 23 students had left and 16 students had joined the school.	Leave blank
	(a) How many students did the school have at the end of the term?	
	(2)	
	The school day starts at 8 30 am and finishes at 3 30 pm.	
	Students have 20 minutes for morning break and 40 minutes for lunch break. Students have lessons for the rest of the school day.	
	(b) Work out how many hours of lessons students have each day.	
	hours (3)	Q2
	(Total 5 marks)	





P 4 0 0 7 8 A 0 6 2 8

The table gives information about temperatures at 1 am in some cities on 2 days. 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  $-2^{\circ}$ C. Q5 (1) (Total 4 marks)



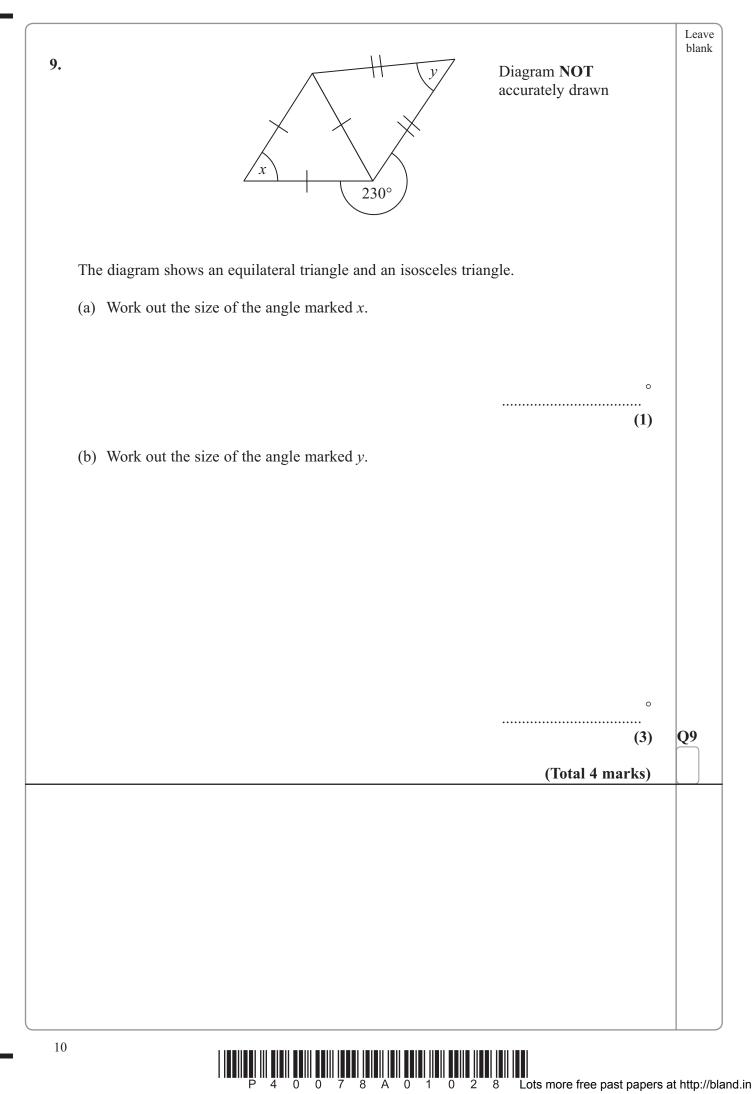
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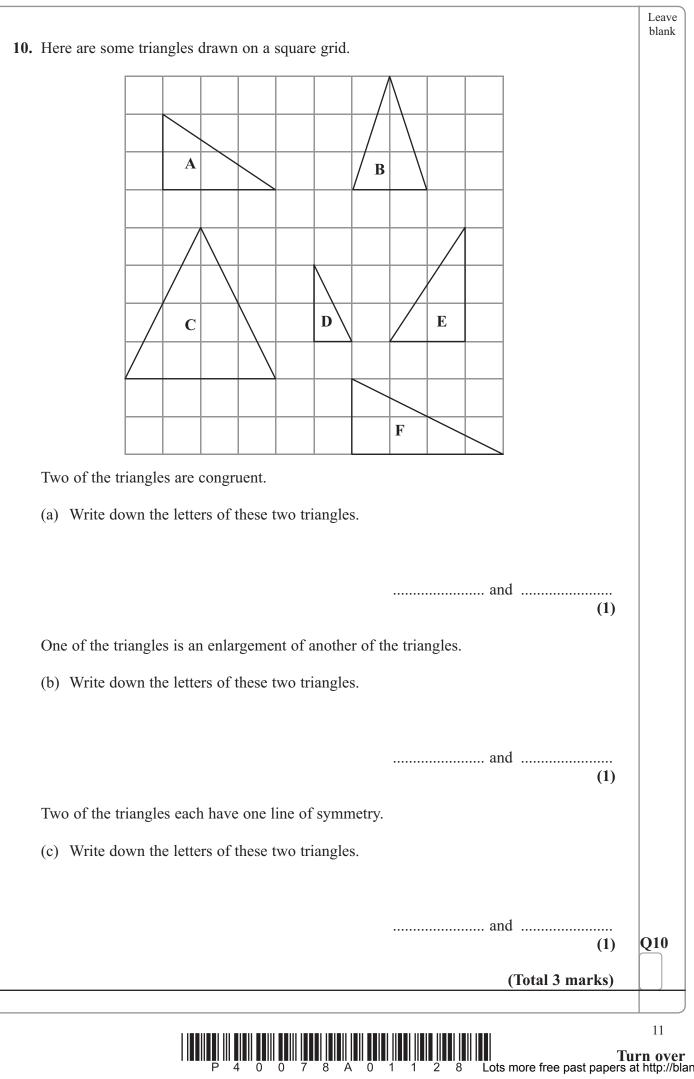
Leave blank

5.

6.		Leave blank
<ul><li>The diagram shows a man and a bus.</li><li>The man and the bus are drawn to the same scale.</li><li>The man is of average height.</li><li>(i) Write down an estimate for the height of the man.</li></ul>		
(ii) Find an estimate for the length of the bus.		
	(Total 3 marks)	Q6
7. (a) Work out $\frac{1}{4}$ of £24	(Total 3 marks)	Q6
7. (a) Work out $\frac{1}{4}$ of £24	(Total 3 marks)	Q6
7. (a) Work out $\frac{1}{4}$ of £24	<u>(Total 3 marks)</u> £	Q6
<ul> <li>7. (a) Work out <sup>1</sup>/<sub>4</sub> of £24</li> <li>(b) Work out 10% of 400 kg.</li> </ul>	£	Q6
	£	Q6

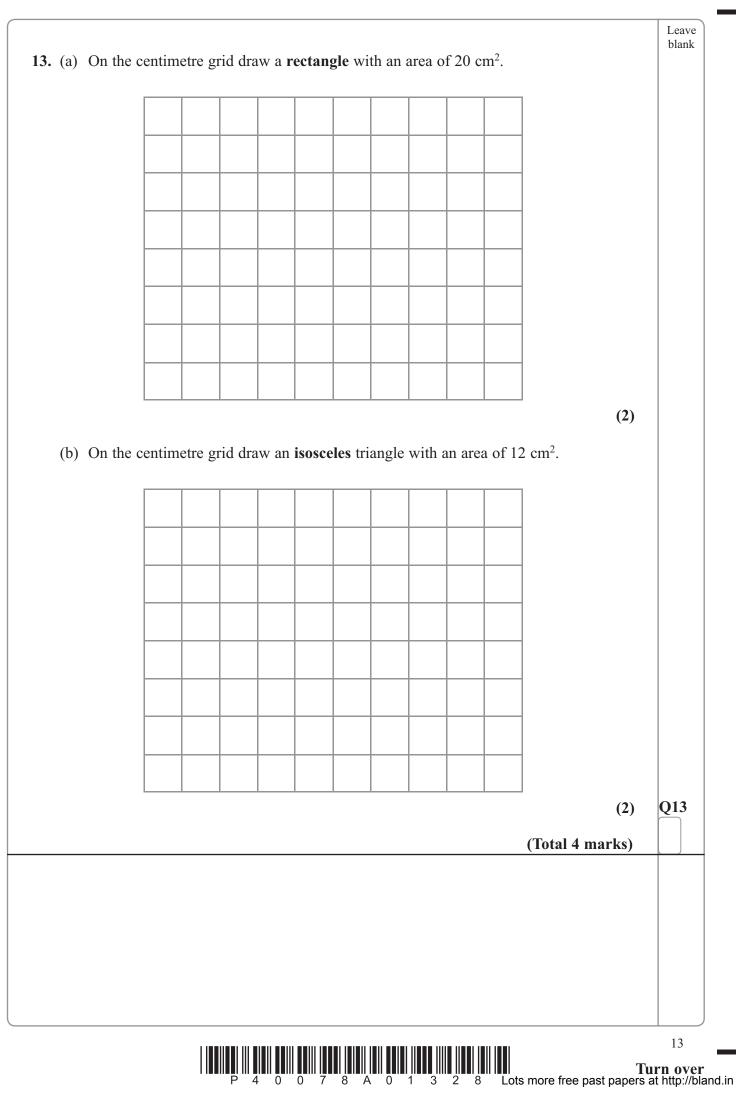
	Leabla
Bill has two parcels on a trolley.	
The first parcel weighs 3.45 kg. The second parcel weighs 1.8 kg.	
Bill cannot put more than a total weight of 10 kg on the trolley.	
Bill puts a third parcel on the trolley.	
(a) Work out the largest possible weight of the third parcel.	
kg	
(3)	
Nimer has a jug. There are 2 litres of water in the jug.	
Nimer wants to fill some glasses with water from the jug. He will fill each glass with exactly 300 ml of water.	
(b) Work out the largest number of glasses that Nimer can fill.	
(b) Work out the fulgest number of glasses that fullier can fill.	
(2)	<b>Q8</b>
 (Total 5 marks)	



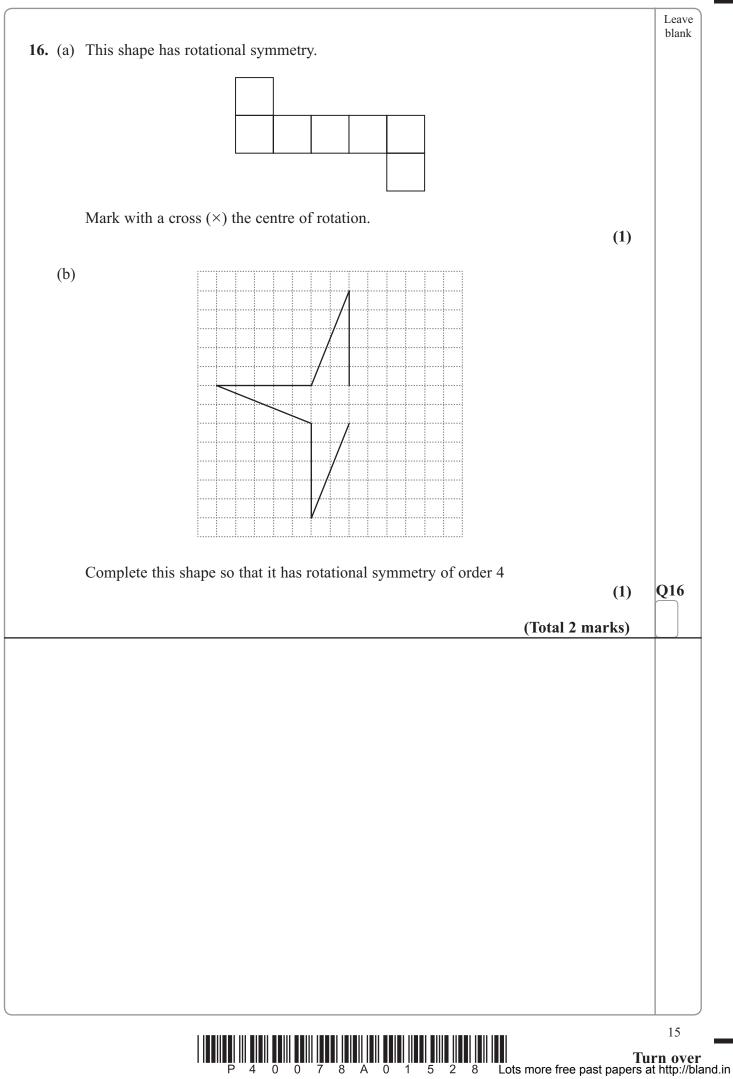


8

l.	Fuenc	Unlikoly	Impossible	Cortain	Likely		blank
	Evens	Unlikely	Impossible	Certain	Likely		
Use	a word from th	ne box which b	est describes ea	ch of the follc	owing events.		
(a)	When you thro	ow an ordinary	dice you get a 1	number greate	r than 1		
						(1)	
(b)	When you thro	ow an ordinary	coin you get a l	head.			
	When you take red counter.	e out a counter	from a bag tha	t contains onl	y blue counters	you get a	
						(1)	Q11
					(Total	3 marks)	
	n of paint costs en buys 19 tins						
Wor	k out an estima	ate for the total	cost.				
					0		Q12
					£	2 marks)	
					(Total)	2 mai ksj	
2							
2					8 Lots more fre		



<b>14.</b> $x = 5$ and $y = \frac{1}{2}$			Leave blank
2 Work out the value	of		
(i) $4x + 2y$			
(ii) 10 – <i>x</i> <sup>2</sup>			
			Q14
		(Total 3 marks)	
<b>15.</b> (a) Work out	564 - 128		
(b) Work out	$4 \times 7 \times 5$	(2)	
		(2)	Q15
		(Total 4 marks)	
14			



17.

					Leave plank
Read	ing				
22	Slough				
28	40	Guildford			
30	22	47	Oxford		
45	28	66	25	Buckingham	
	e gives distances in miles te down the distance betw	•			

..... miles (1)

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)



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

The compared the second secon		Leave blank
<ul> <li>Theo earns £20 one weekend.</li> <li>He gives £4 to his brother.</li> </ul>		
<ul><li>(a) Express £4 as a fraction of £20 Give your answer in its simplest form.</li></ul>		
	(2)	
Theo gives £6 to his mother.		
(b) Express £6 as a percentage of £20		
	0/	
	% (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)	

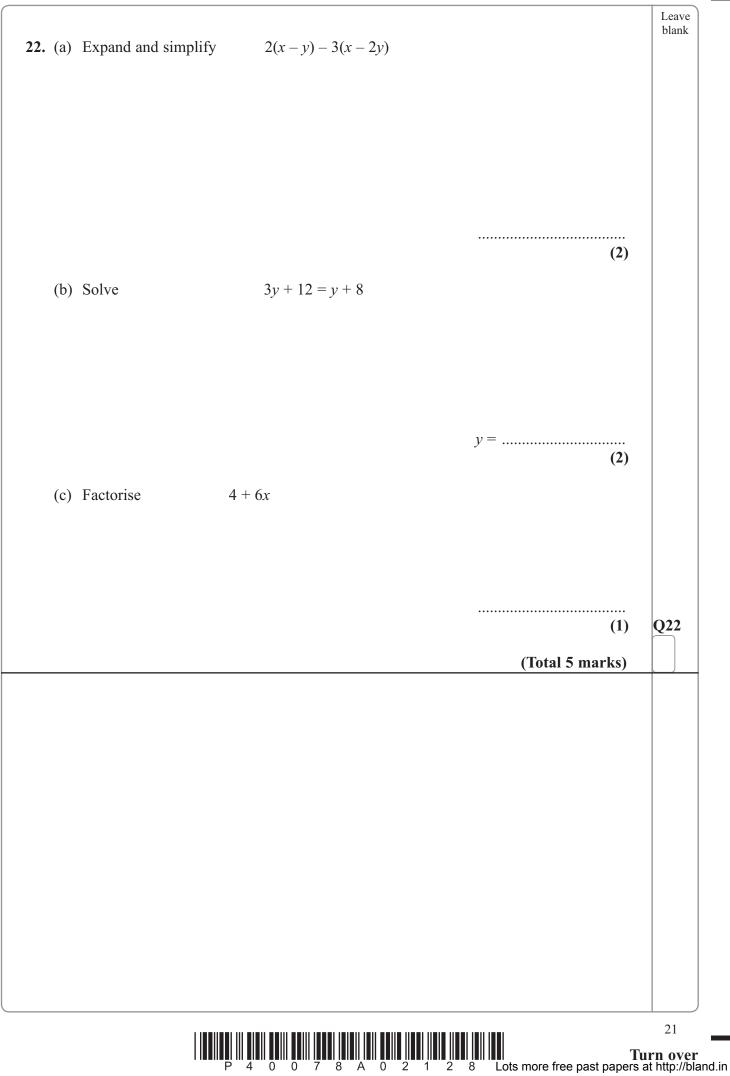
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### **20.** Here is a number pattern.

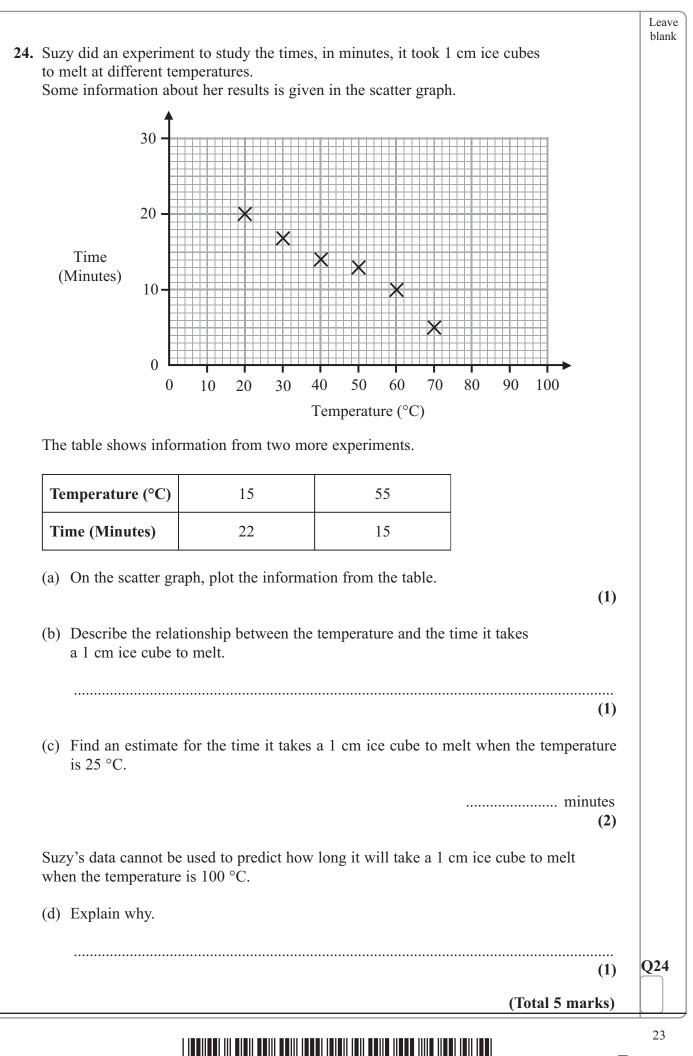
1	$1^2 + 3^2$	$2 \times 2^2 + 2$	10	_	
2	$2^2 + 4^2$	$2 \times 3^2 + 2$	20		
3	$3^2 + 5^2$	$2 \times 4^2 + 2$	34		
4			52		
10					
a) Complete Lii	ne Number 4 of the	a nottern			
		e pattern.		(1)	
) Complete Lii	ne Number 10 of th				
	ne Number 10 of th	he pattern.	0012	(1) (2)	
	ne Number 10 of th		)01 <sup>2</sup>		
	ne Number 10 of th	he pattern.	001 <sup>2</sup>		Q2

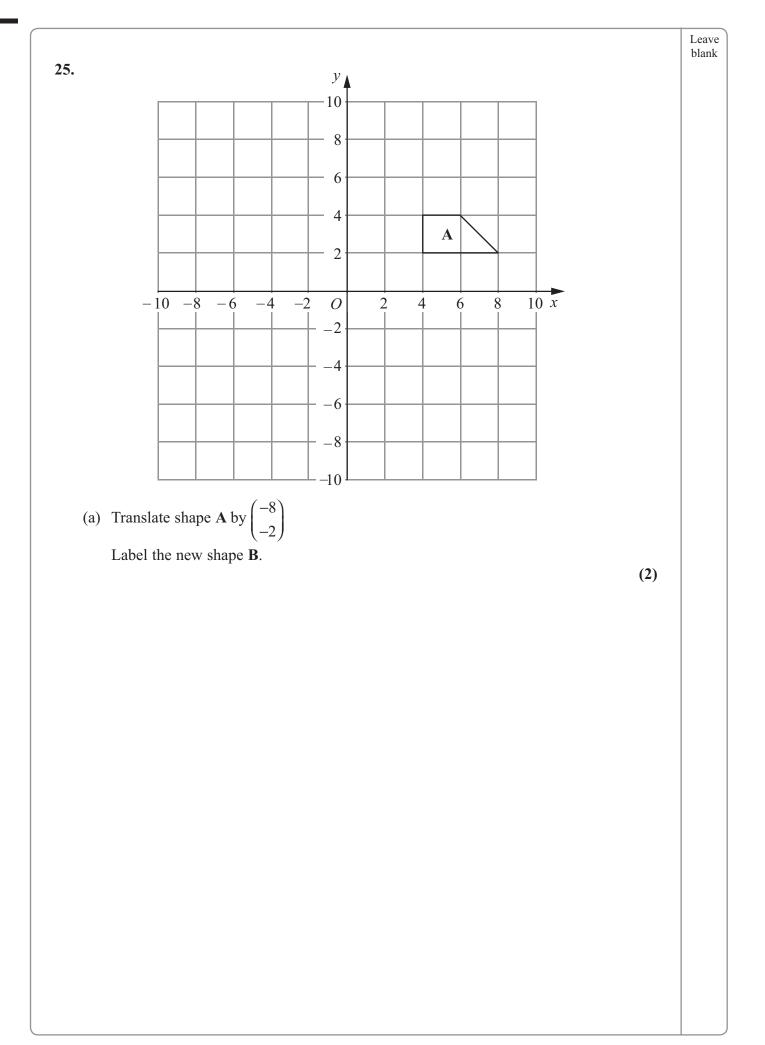
19

Jim did a survey on the lengths of cater	millars he found on a field trip	Leave blank
Information about the lengths is given i	in the stem and leaf diagram.	
1 3 5 7 7	Key: 5 2 means 5.2 cm	
2 0 6 8 8 8 9		
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 caterp	nillar is longer than 4 cm	
(c) The the probability that this caterp	inar is longer than 4 cm.	
	(2)	01
	(2)	Q21
	(Total 6 marks)	

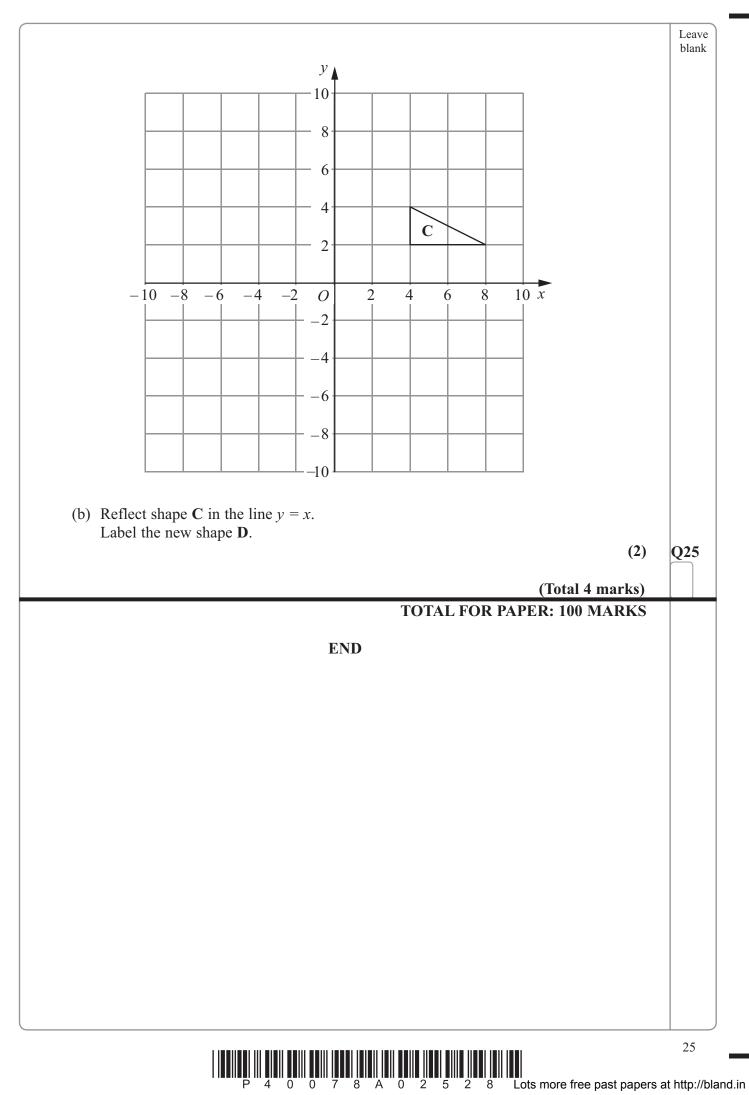


23.	Diagram <b>NOT</b> accurately drawn
The diagram shows a regular hexagon and a square. Calculate the size of the angle <i>a</i> .	
	٥
	(Total 4 marks)











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