Centre No.							Pape	er Refer	ence			Surname	Initial(s)
Candidate No.					1	3	8	0	/	2	F	Signature	
		Pape	r Reference(	(s)									

# **Edexcel GCSE**

Mathematics (Linear) – 1380

1380/2F

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

Paper 2 (Calculator)

# **Foundation Tier**



Tuesday 10 November 2009 - Morning Time: 1 hour 30 minutes

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers Nil

## **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 29 questions in this question paper. The total mark for this paper is 100.

There are 24 pages in this question paper. Any blank pages are indicated.

#### Calculators may be used.

If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

### **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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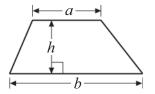
Turn over

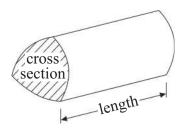
## GCSE Mathematics (Linear) 1380

Formulae: Foundation Tier

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

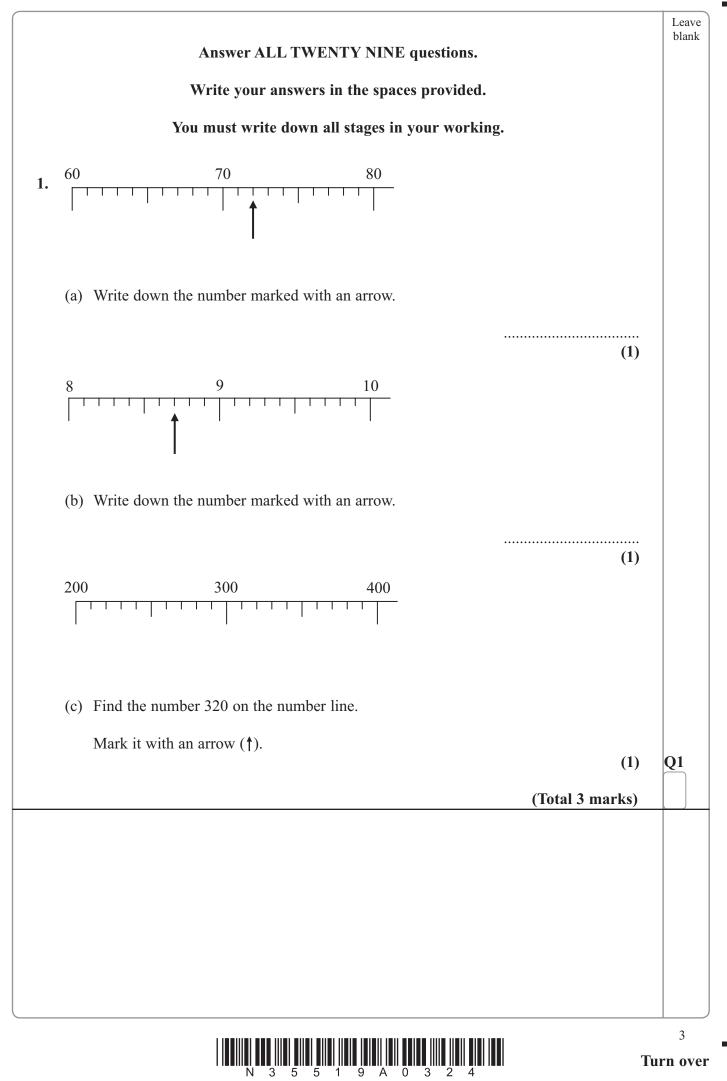
Area of trapezium =  $\frac{1}{2}(a+b)h$ 

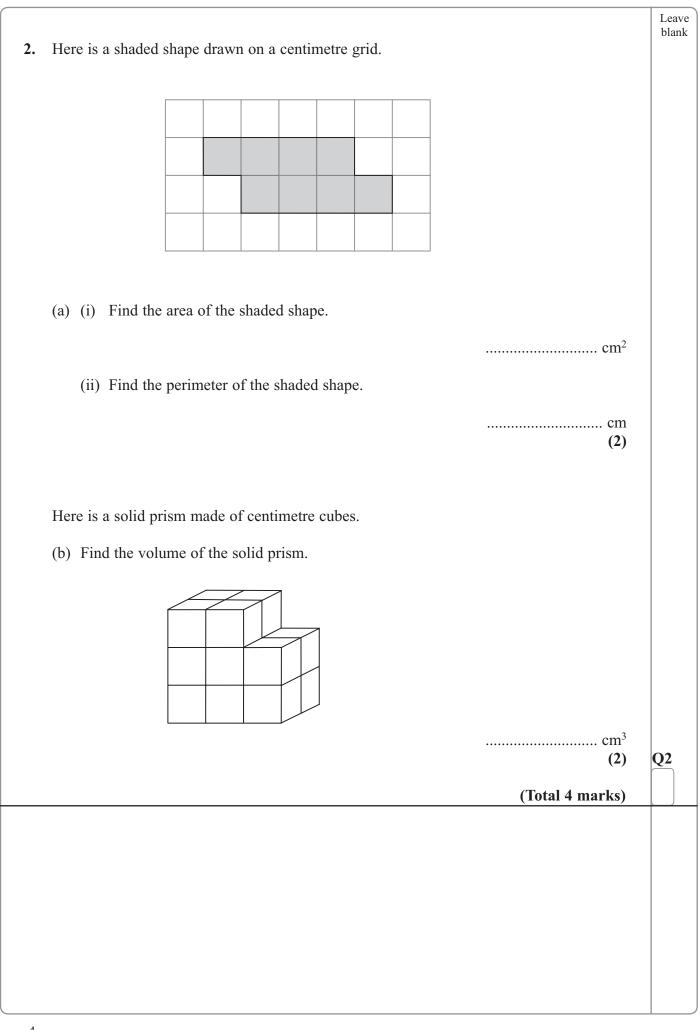




**Volume of prism** = area of cross section × length







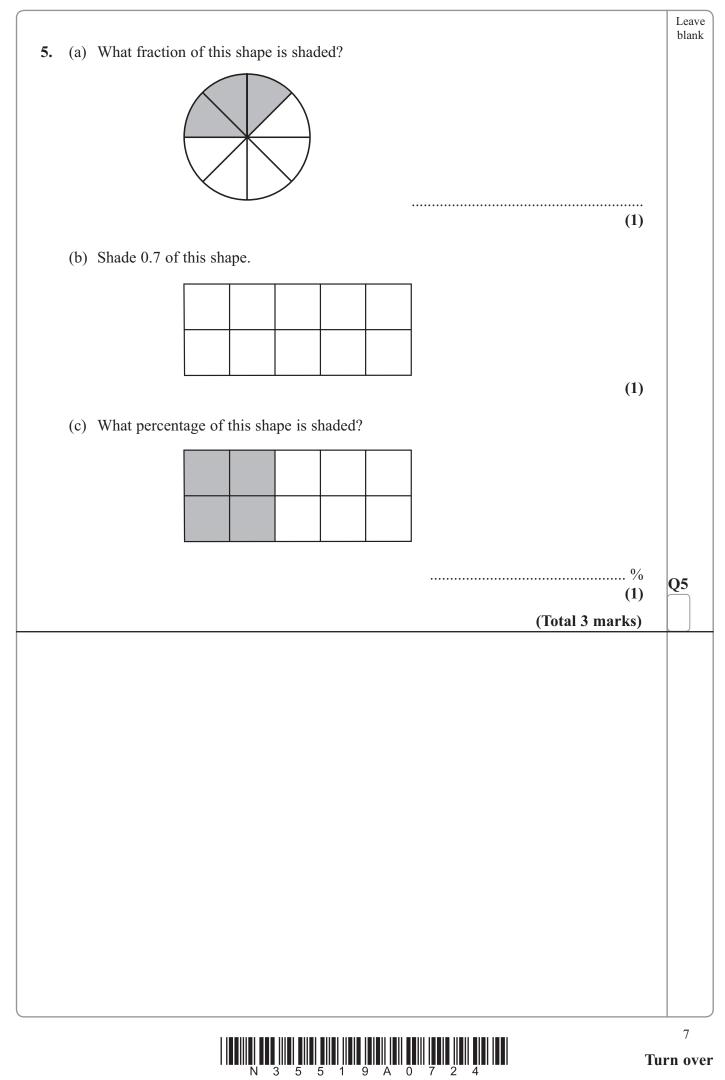
# blank 3. The table gives some information about 5 girls. Name Number of pets **Favourite subject** Age Adilah Mathematics 11 1 Brianna 12 2 Art Charlotte 11 4 English 13 3 PE Diana 3 12 Emma Art (a) Write down the name of the oldest girl. ..... (1) (b) Write down the name of the girl who is 11 years old and has 4 pets. ..... (1) (c) Write down the name of the girl who has 3 pets and whose favourite subject is Art. ..... **Q3** (1) (Total 3 marks)



5

Leave

	Leave blank
4. (a) Write down the name of each of these two 3-D shapes.	
(i) (ii)	
(i) (ii)	
(2)	
(b) Here is a triangular prism.	
(i) Write down the number of faces of this prism.	
(ii) Write down the number of edges of this prism.	
(2)	Q4
	Q4
(2)	Q4



Leave blank

.....

..... minutes

.....

(Total 3 marks)

(1)

(1)

(1)

**Q6** 

6. Here is part of a train timetable.

Station	Time of leaving
Leeds	08 05
Wakefield	0817
Doncaster	0836
Peterborough	0926
Stevenage	0958

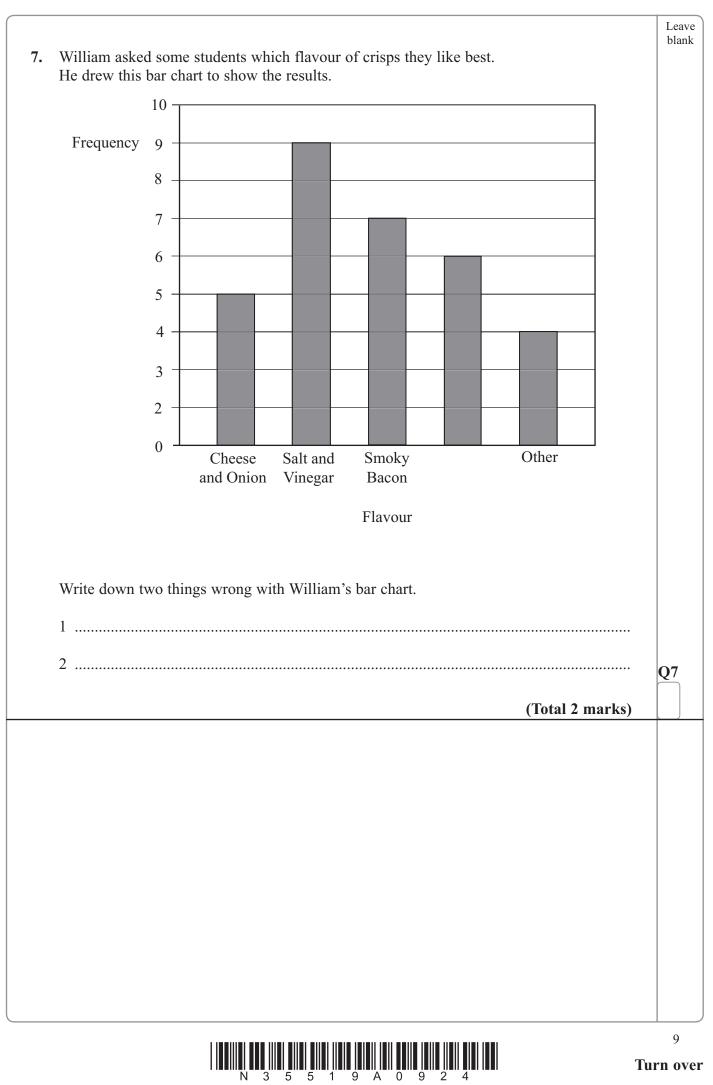
(a) At what time should the train leave Doncaster?

	e wants to catch the 0926 train.
(b	) How many minutes should he have to wait?

The train leaves Stevenage at 0958 It takes 27 minutes to travel to London.

(c) At what time does the train arrive in London?



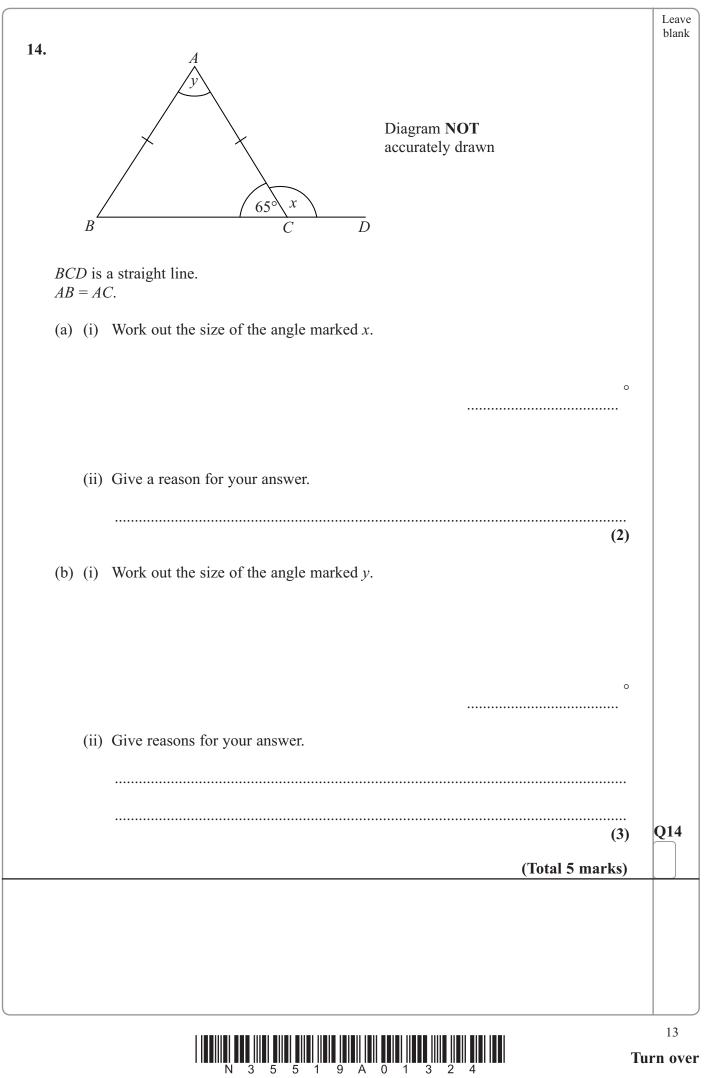


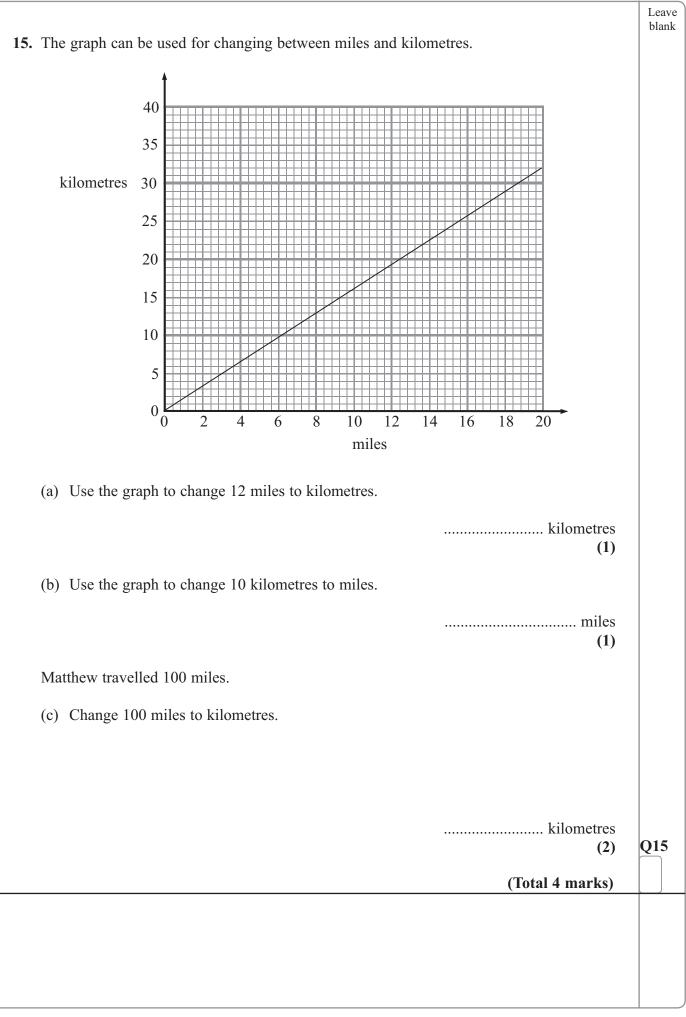
8.	Here are the first four terms of a number sequence	Leave blank
0.	Here are the first four terms of a number sequence. 5 9 13 17	
	(a) (i) Write down the next term of the number sequence.	
	(ii) Explain how you found your answer.	
	(2)	
	The 25 th term of the number sequence is 101	
	(b) Work out the 26th term of the number sequence.	
	(1)	<b>Q8</b>
	(Total 3 marks)	
9.	(a) Write down the value of $10^2$	
	(1) (b) Write down the value of $\sqrt{40}$	
	(b) Write down the value of $\sqrt{49}$	
	(1)	
	(c) Write down the value of $2^3$	
	(1)	Q9
	(Total 3 marks)	

<b>10.</b> Here is a list of 7 numbers.		Leave blank
16 18 19 20 28 33 36		
From the list, write down		
(a) the odd number larger than 20		
(b) the prime number	(1)	
	(1)	
(c) <b>two</b> numbers with a difference of 10	and	
	and (1)	
(d) a multiple of 9		
		Q10
	(Total 4 marks)	
11. This quadrilateral has two pairs of equal sides.		
tt .		
(a) Write down the special name for the quadrilateral.		
	(1)	
(b) On the diagram, mark with the letter R, the right angle.	(1)	
(c) Write down the special name for the angle marked $x$ .		
	(1)	Q11
	(1) (Total 3 marks)	
		11
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		urn over

\_\_\_\_

		2	3	3	2	4	7	7	10	7		
	(a)	Write	dow	n the	mode	ð.						
											(1)	
	(b)	Work	out	the ra	nge o	f her	marks					
	(c)	Work	out	her m	iean n	nark.					(2)	
											(2)	Q1
											(Total 5 marks)	
13.	(a)	Simpl	ify		31	p + 4p	0					
											(1)	
	(b)	Simpl	ify		е	$\times f \times$	5					
											(1)	
	(c)	Simpl	ify		$y^2$	$+y^{2}$	$+ y^2$					
											(1)	Q1
											(Total 3 marks)	





<ol> <li>The accurate pie chart gives some information about the votes received by 3 students in an election.</li> </ol>	Leave blank
Paul       Aimee       Sidra	
The students received a total of 84 votes.	
(a) How many votes did Aimee receive?	
(1)	
In the pie chart, the angle for Paul is 60°.	
<ul><li>(b) What fraction of the votes did Paul receive? Give your fraction in its simplest form.</li></ul>	
	016
(2) (Total 3 marks)	Q16



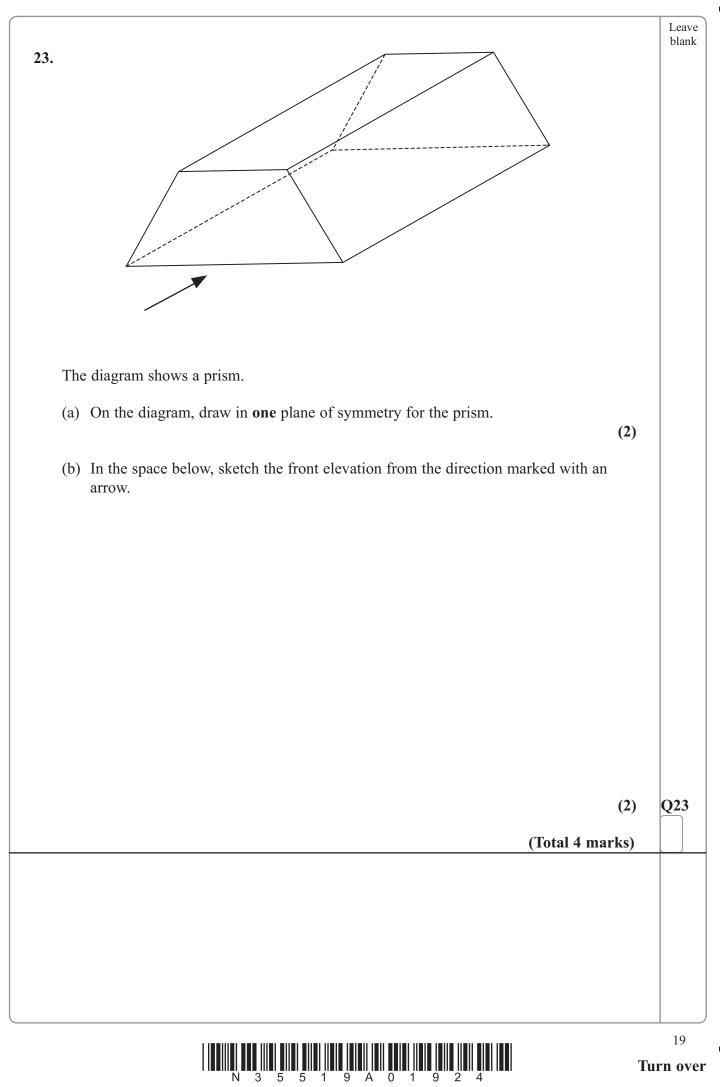
17.				Ulalik
	P	rices		
	Apples Oranges Tomatoes	£2.00 per kg £0.34 each £2.40 per kg		
E	mma buys			
	1 kg of apples			
	2 oranges			
	$\frac{3}{4}$ kg tomatoes			
W	Work out the total cos	st.		
			c	Q17
			£(Total 4 marks)	
<b>18.</b> <i>p</i>	=2		(10001 + 1101 K3)	
q	=-4			
W	Vork out the value of	3p+5q		
				Q18
				È.

Leave blank

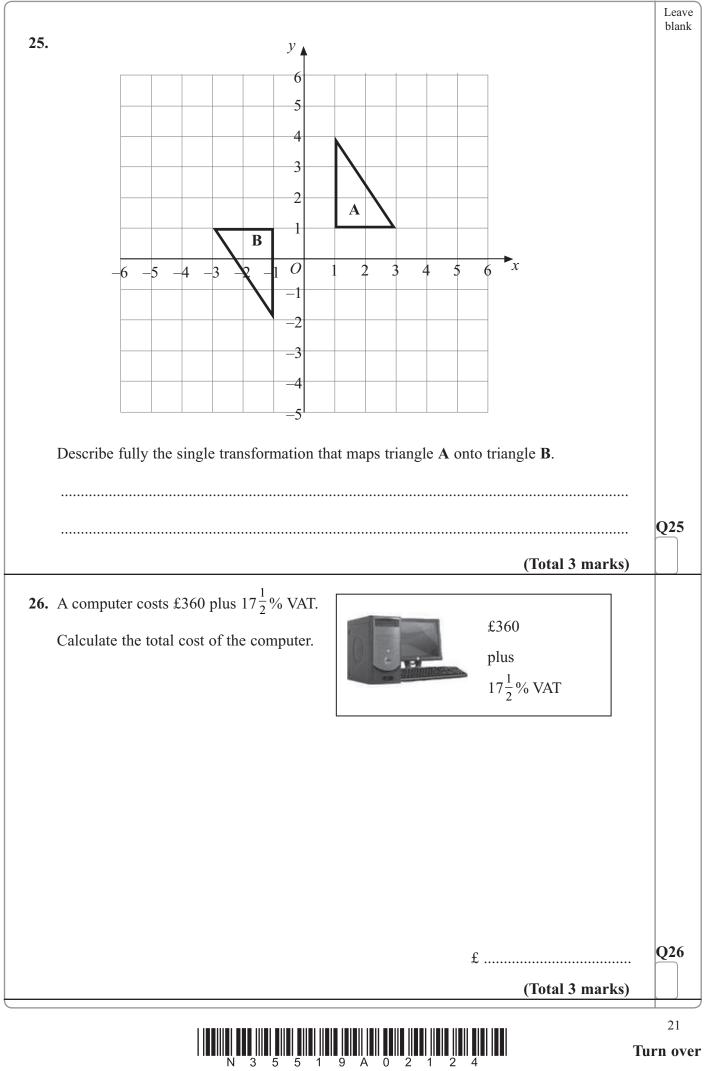
			Leave blank
	Colin goes to Switzerland. The exchange rate is $\pounds 1 = 2.30$ francs.		
	He changes £400 into francs.		
	(a) How many francs should he get?		
		francs (2)	
	In Switzenland Calin huns a hat	(-)	
	In Switzerland, Colin buys a hat. The cost of the hat is 46 francs.		
(	(b) Work out the cost of the hat in pounds.		
	£		
		(2)	Q19
		(Total 4 marks)	
20.	(a) Use your calculator to work out the value of $\frac{8.7 \times 12.3}{9.5 - 5.73}$		
	(a) Use your calculator to work out the value of $\frac{1}{9.5-5.73}$ Write down all the digits from your calculator.		
	Give your answer as a decimal.		
		(2)	
		(2)	
	(b) Write your answer to part (a) correct to 1 significant figure.		
		(1)	Q20
		(1) (Total 3 marks)	
		- · · ·	17
		Tu Tu	irn over

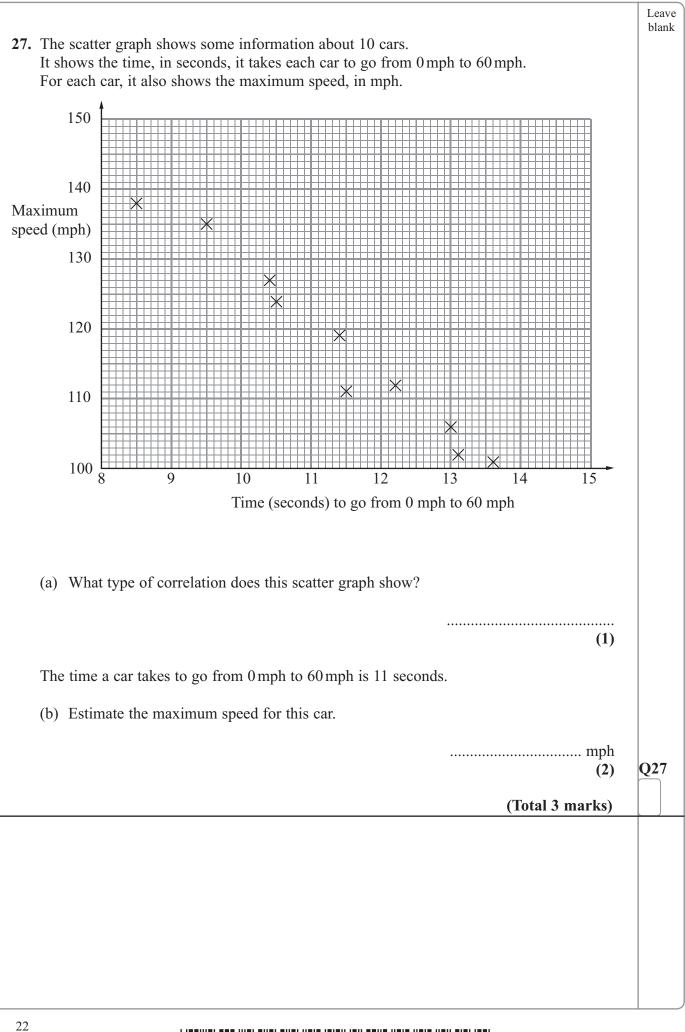
			m	=	(1)	
(b) Solve	3n = 36					
			<i>n</i> =	=	(1)	
(c) Solve	$\frac{x}{5} = 10$					
			<i>x</i> =	=	(1)	
(d) Solve	4y + 7 = 13					
			<i>y</i> =	=	(2)	Q2
					(-)	-
They could c	0 students which sp hoose swimming o	r tennis or athletic		(Total 5 m	arks)	
They could c		r tennis or athletic		(Total 5 m Total	narks)	
They could c	hoose swimming o table shows some Swimming	r tennis or athletic	their answers.		narks)	
They could c	hoose swimming o table shows some Swimming	r tennis or athletic	their answers. Athletics		narks)	





24 Soon	nowdor is sold	in two sizes of box				Leave blank
<b>24.</b> Soap	powder is sold	III two sizes of box				
		]	Soap Powder	Í		
ſ	Soon Dowdon					
	Soap Powder		9kg			
	2kg					
	£1.72		£7.65			
L						
	Small box		Large box			
<b>A</b>	- 11 h		an and costs (1.72			
		s 2 kg of soap powd s 9 kg of soap powde				
White	ch size of box g	ives the better value	for money?			
Expl	ain your answer	r.				
	must show all y					
						Q24
					(Total 3 marks)	
					(Total 5 marks)	





N 3 5 5 1 9 A 0 2 2 2

N

<ul><li>28. A piece of wood is 180 cm long.</li><li>Tom cuts it into three pieces in the ratio 2 : 3 : 4</li></ul>		Leav blar
Work out the length of the longest piece.		
work out the length of the longest piece.		
		Q28
	Total 3 marks)	
	Total 5 marks)	
<b>29.</b> The equation		
$x^3 + 2x = 60$		
has a solution between 3 and 4		
Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place.		
You must show all your working.		
		Q29
(*************************************	Total 4 marks)	
	X, IVV MEXICICS	
END		

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