Centre No.			Paper Reference					ce	Surname	Initial(s)		
Candidate No.			5	5	4	0	F	/	1	F	Signature	

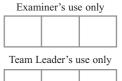
5540F/1F Edexcel GCSE

Paper Reference(s)

Mathematics A (Linear) – 2540

Paper 1 (Non-Calculator)

Foundation Tier



Monday 19 May 2008 – Morning Time: 1 hour 30 minutes

Materials required for examination

Items included with question papers

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

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 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

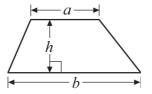
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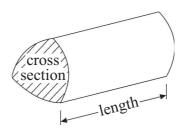
GCSE Mathematics (Linear) 2540

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



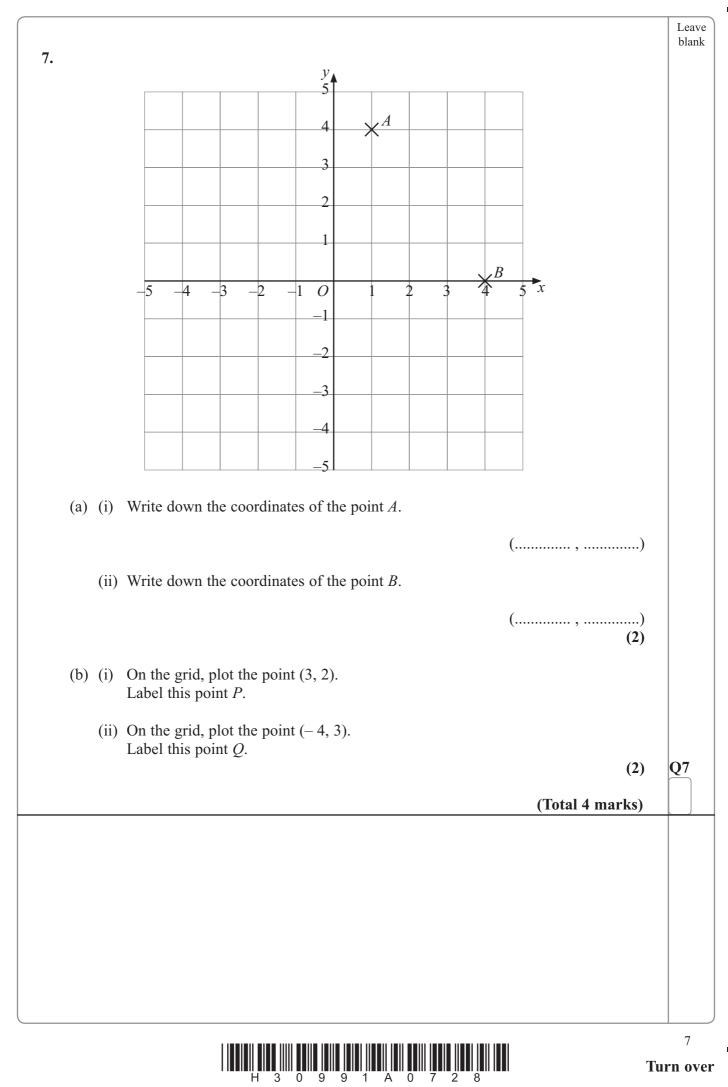
Answer ALL TWENTY NINE questions.		Leave blank
Write your answers in the spaces provided.		
You must write down all stages in your working.		
You must NOT use a calculator.		
1. (a) Write the number 3187 to the nearest thousand.		
	(1)	
(b) Write the number four thousand six hundred and eighty one in fig	jures.	
	(1)	
(c) Write the number 5060 in words.		
	(1)	Q1
	(Total 3 marks)	
2.	<u> </u>	
AB		
(a) Measure the length of the line <i>AB</i>.Give the units with your answer.		
·······	(2)	
(b) On the diagram, mark with a cross (\times) the midpoint of the line <i>AB</i> .	(1)	Q2
	(Total 3 marks)	
		3
	Tu	ırn over

Sharif buys some fruit. The pictogram shows information about the number of apples and the num he buys.	nber of oranges	b
Apples		
Oranges		
Peaches		
Key: represents 8 fruit		
(a) Write down the number of apples he buys.		
(b) Write down the number of oranges he buys.	(1)	
	(1)	
Sharif buys 12 peaches.		
(c) Use this information to complete the pictogram.	(1)	Q
(*	Total 3 marks)	

4.	(a) Write these numbers in order of size.	Leave blank
	Start with the smallest number.	
	17 6 168 24	
	(1)	
	(1)	
	(b) Write these numbers in order of size. Start with the smallest number.	
	1.8 3.71 0.5 12.4	
	1.6 5.71 0.5 12.4	
	(1)	Q4
	(Total 2 marks)	
5.	The total cost of these 2 pens is 60p.	
	Work out the total cost of 5 of these pens. Give your answer in pounds.	
		05
	£	Q5
	£ (Total 3 marks)	Q5



ine table shows th	ne uistances in K	ilometres between 5		
Hull				
100	Leeds			
162	73	Manchester		
110	60	65	Sheffield	
63	40	118	95	York
a) Write down th	ne distance betwo	een Hull and Manch	nester.	
				km (1)
				(1)
b) From the table	e, write down the	e name of the city v	which is	
(i) nearest to	, Hull			
(I) licalest to) 11011,			
(ii) 60 km fro	m Shaffiald			
	Silement.			
				(2)
				(Total 3 marks)
				(Total 5 marks)



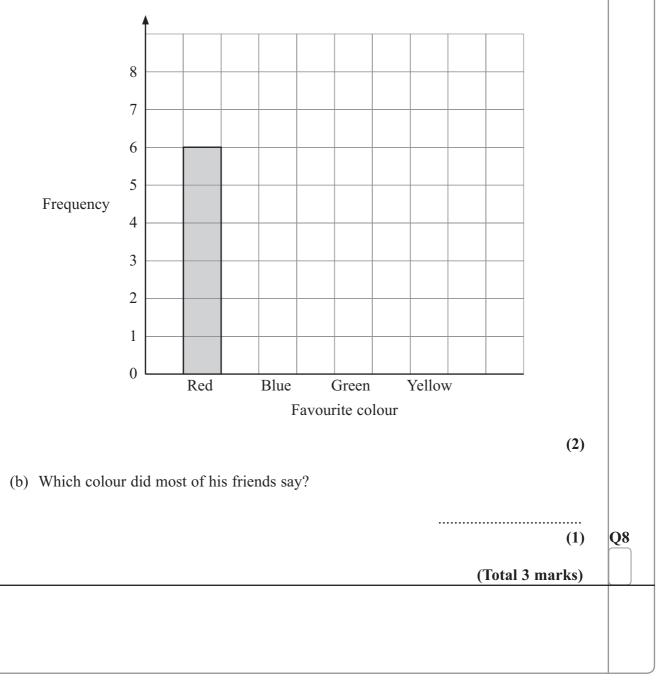
Leave blank

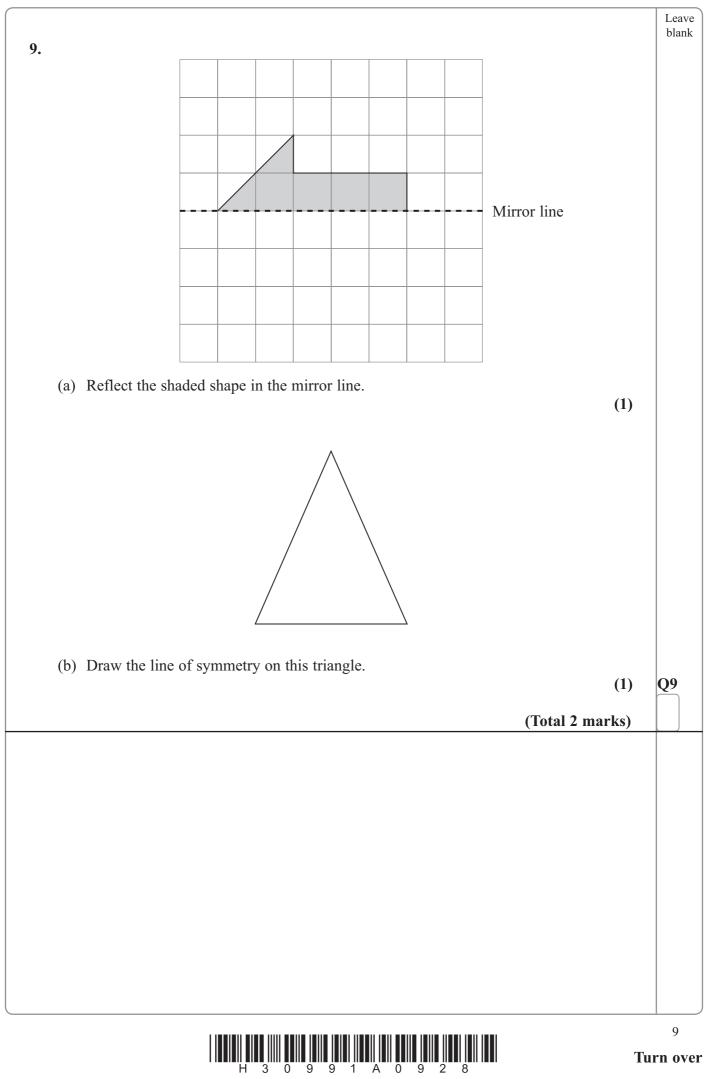
8. Steve asked his friends to tell him their favourite colour.

Here are his results.

Favourite colour	Tally	Frequency
Red		6
Blue		8
Green		5
Yellow		3

(a) Complete the bar chart to show his results.



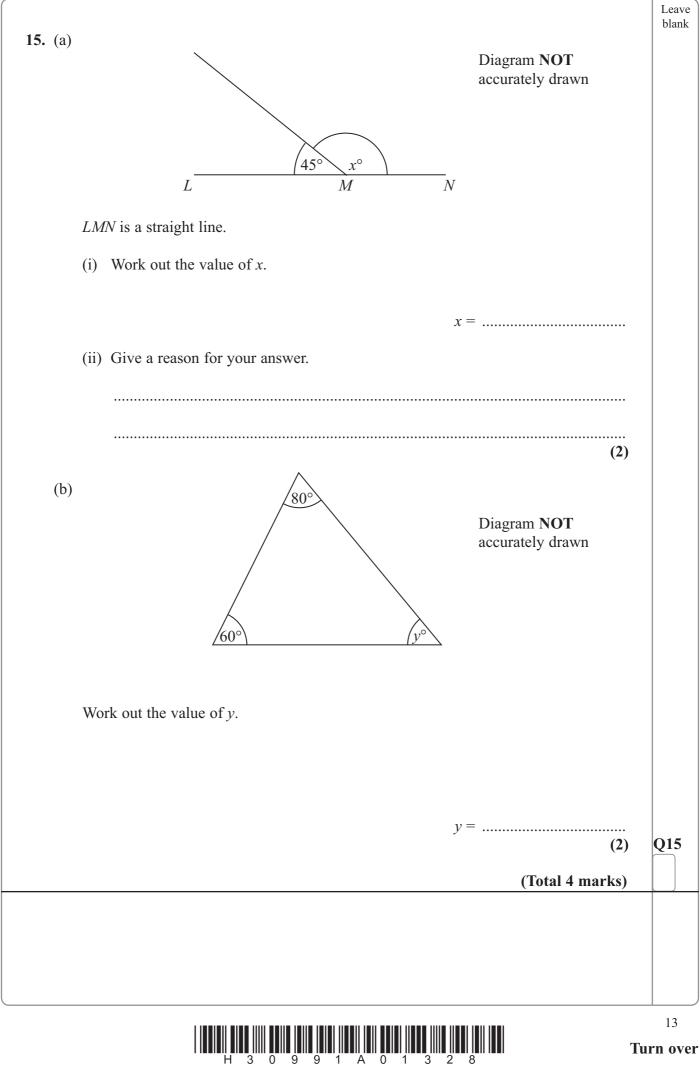


	Leave blank
10. Work out	
(i) $3 \times 3 - 5$	
(ii) $20 \div (12 - 2)$	
(iii) $7 + 8 \div 4$	
	Q10
(Total 3 marks)	
11. (a) Here are some fractions.	
$\frac{2}{4}$ $\frac{4}{8}$ $\frac{2}{5}$ $\frac{7}{14}$	
Which one of these fractions is not equal to $\frac{1}{2}$?	
2	
Give a reason for your answer.	
(2)	
(b) Work out $\frac{3}{4}$ of 20	
(2)	Q11
(Total 4 marks)	
10	

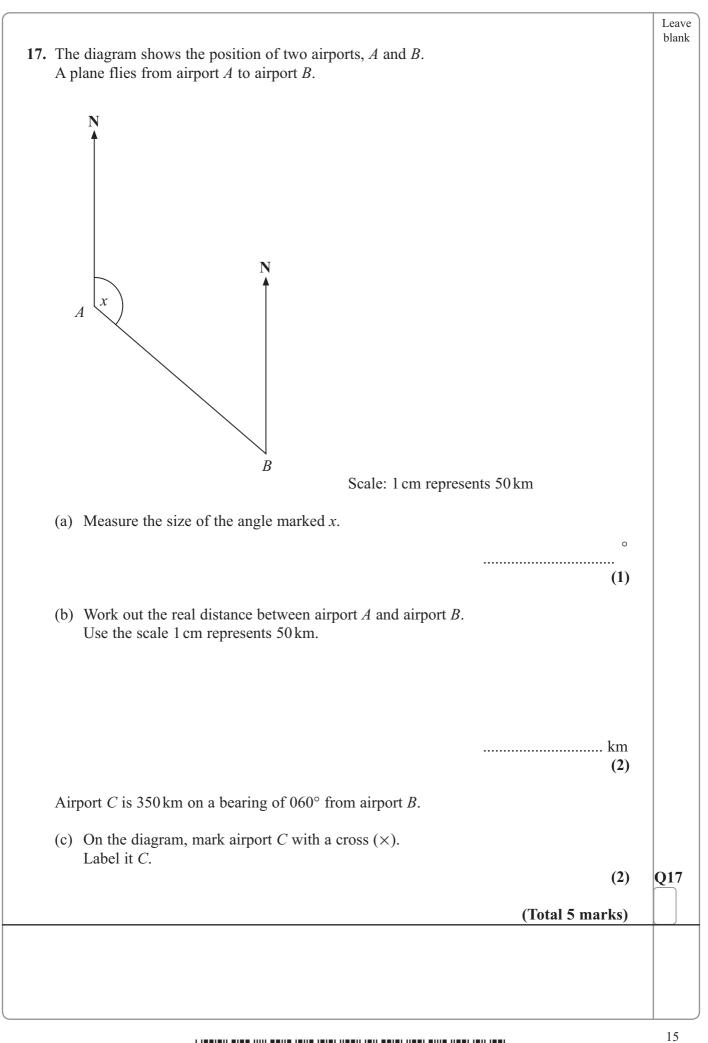
12. $P = 3n$		Leave blank
n = 6 (a) Work out the value of <i>P</i> .		
	<i>P</i> =	
	(1)	
Q = 2c + d c = 3		
d = 2		
(b) Work out the value of Q .		
	Q =(2)	Q12
	(Total 3 marks)	
13. (a) Complete the table by writing a sensible metric u The first one has been done for you.	nit for each measurement.	
The length of the river Nile	6700 kilometres	
The height of the world's tallest tree	110	
The weight of a chicken's egg	70	
The amount of petrol in a full petrol tank of a car	40	
	(3)	
(b) Change 4 metres to centimetres.		
	cm (1)	
(c) Change 1500 grams to kilograms.		
	kg (1)	Q13
	(Total 5 marks)	

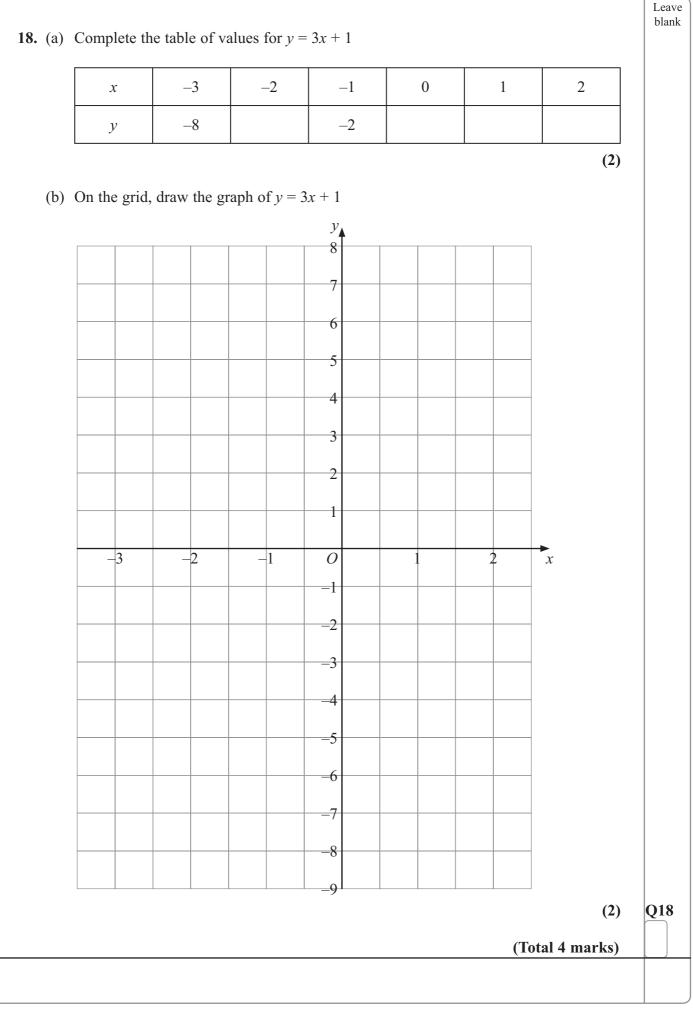


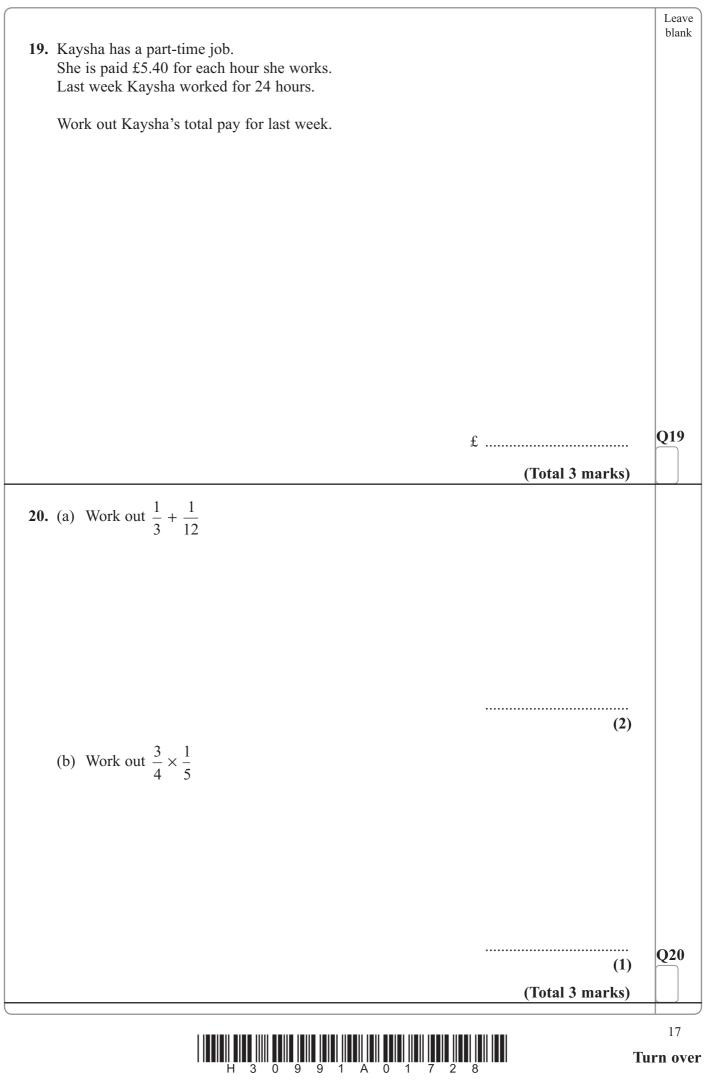
		Leave blank
14.	There are three beads in a bag. One bead is blue, one bead is yellow and one bead is green.	
	$\left(\begin{array}{c} G \end{array} \right)$	
	Zoe takes a bead at random from the bag.	
	(a) On the probability scale, mark with the letter <i>B</i> the probability that she takes a blue bead.	
	$\begin{array}{c}1\\0\\\frac{1}{2}\end{array}$	
	2	
	(1)	
	Zoe now throws a coin.	
	One possible outcome for the bead and the coin is (green, heads).	
	(b) List all the possible outcomes for the bead and the coin.One has already been done for you.	
	(green, heads)	
		Q14
	(Total 3 marks)	



16. (a) Write 92% as a decimal.	Leave blank
(1) (b) Write 3% as a fraction.	
	:
(c) Work out 5% of 400 grams. (1)
gram	s
(2 (Total 4 marks)	2) Q16







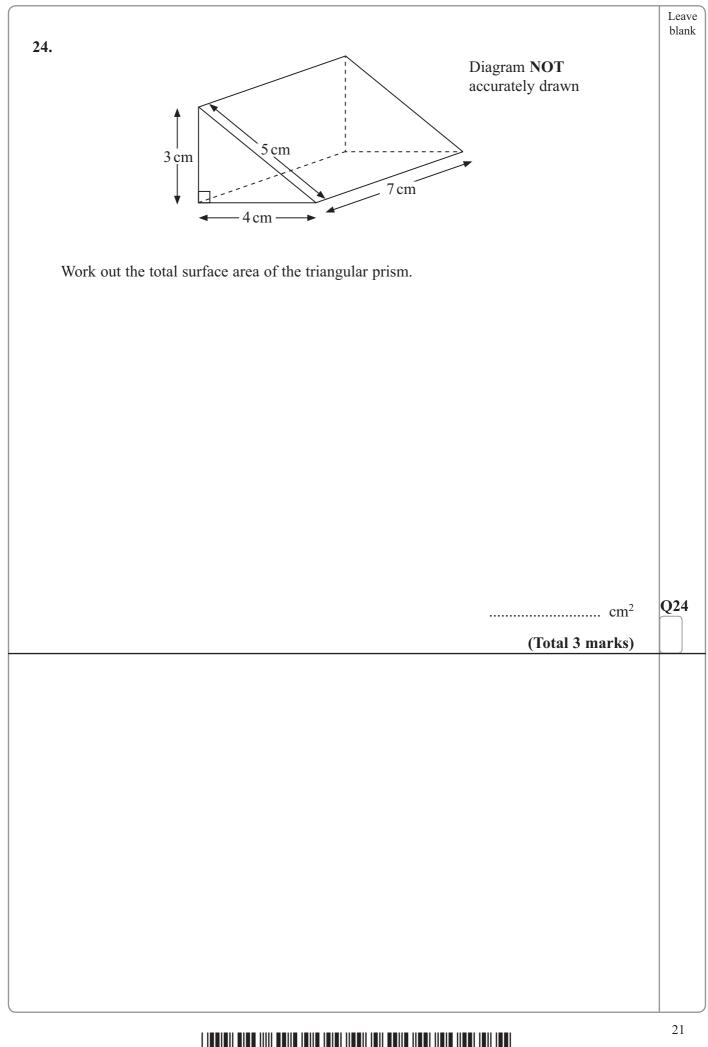
21. (a) Simplify $d + d + d + d + d$		Leave blank
(b) Simplify $y^2 + y^2$	(1)	
	(1)	
(c) Expand 4(3 <i>a</i> – 7)		
(d) Simplify $t \times t^2$	(2)	
(e) Simplify $m^5 \div m^3$	(1)	
		Q21
	(Total 6 marks)	



22.	Her	e are the	ages i	n vea	rs. of	15 teach	ners.						Lea [®] blar	
							1015.							
		35				36								
		23		41	50	34								
		44	28	45	45	53								
	(a)	Draw an You mus				leaf dia	agram to	show this	informatic	on.				
											7			
								Key:						
											(3)		
		e of these												
	(b)	Work ou	it the p	orobab	ility tł	nat this	teacher i	s more tha	n 40 years	old.				
											(2)	Q22	, t
										(Tot	al 5 marks)		
												1	19	
					Н 3	09	9 1	A 0 1	9 2 8			Tur	n ov	ver

		Leave blank
23.	David buys some stamps. Each stamp costs 25p.	
	The total cost of the stamps is £3	
	(a) Work out the number of stamps David buys.	
	(2)	
	Adam, Barry and Charlie each buy some stamps.	
	Adam buys <i>x</i> stamps. Barry buys three times as many stamps as Adam.	
	(b) Write down an expression, in terms of x , for the number of stamps Barry buys.	
	(1)	
	Charlie buys 5 more stamps than Adam.	
	(c) Write down an expression, in terms of x , for the number of stamps Charlie buys.	
	(1)	Q23
	(Total 4 marks)	

H 3 0 9 9 1 A 0 2 0 2 8

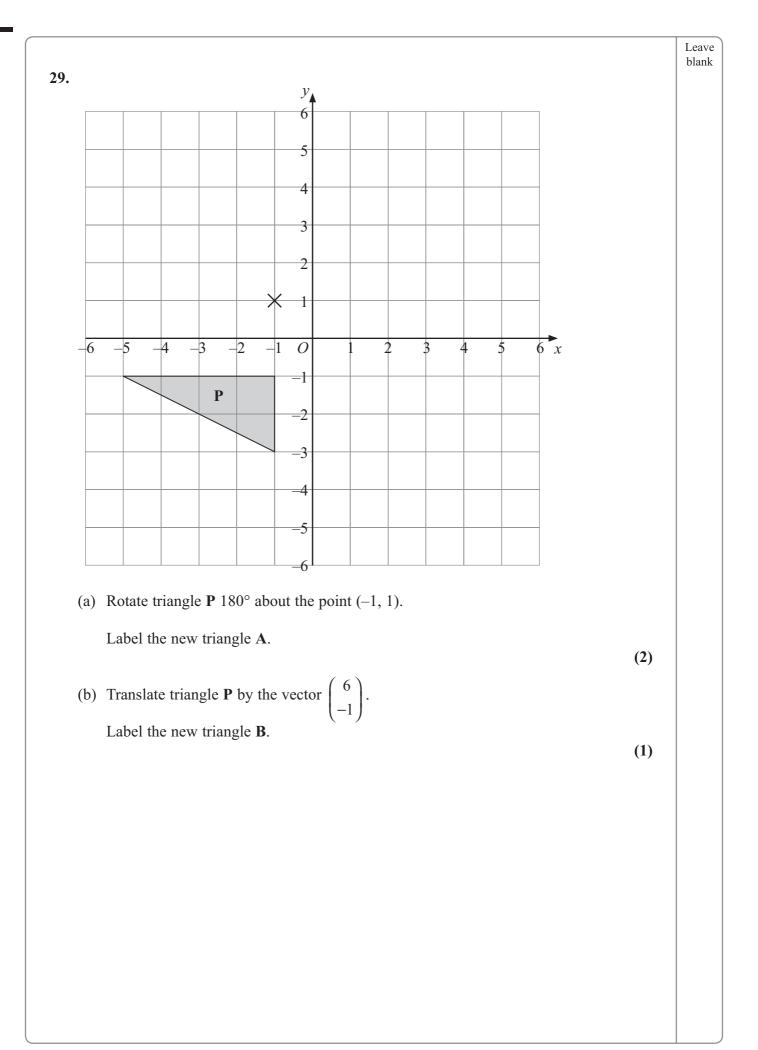


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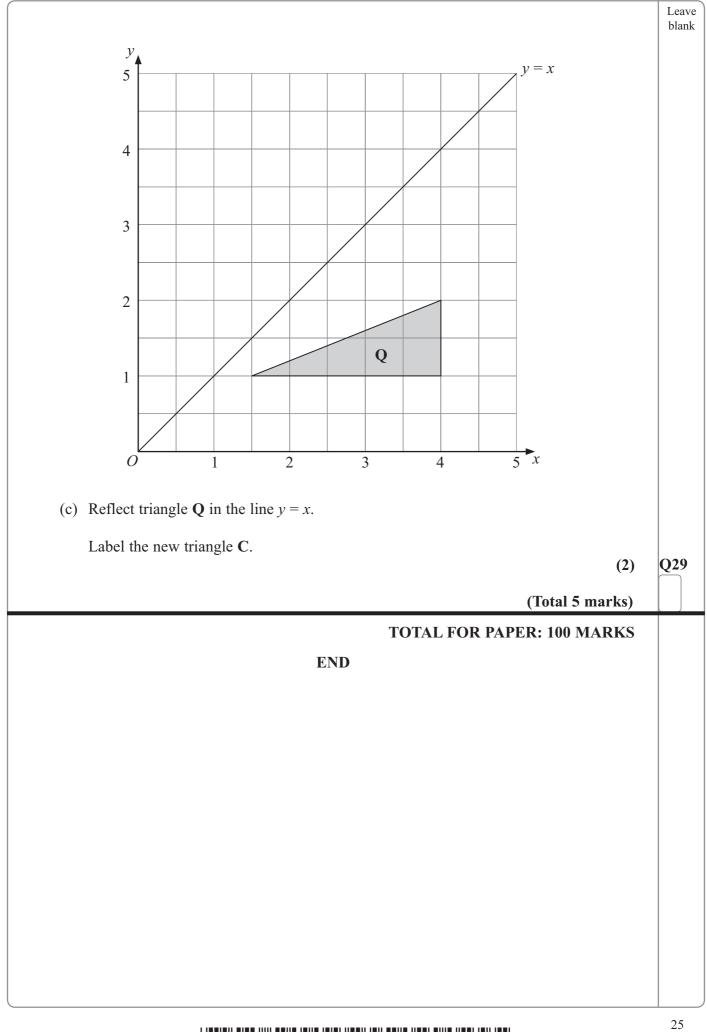
25. Using the information that		Lea bla
$4.8 \times 34 = 163.2$		
write down the value of		
(a) 48×34		
	(1)	
(b) 4.8×3.4		
	(1)	
(c) $163.2 \div 48$		
	(1)	Q2:
	(Total 3 marks)	
26. Work out an estimate for $\frac{302 \times 9.96}{2}$		
0.51		
		Q2
	(Total 3 marks)	

27. In the space below, use ruler and compasses to construct an equilateral triangle with sides of length 6 centimetres.You must show all your construction lines.	Leave blank
One side of the triangle has already been drawn for you.	
	027
(Total 2 marks)	Q27
28. $-2 \le x < 3$ x is an integer.	
Write down all the possible values of x .	
	Q28
(Total 2 marks)	









H 3 0 9 9 1 A 0 2 5 2 8