

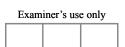
## 5538/18 **Edexcel GCSE**

Paper Reference(s)

# Mathematics B - 1388

Paper 18 (Non-Calculator)

# **Higher Tier**



Team Leader's use only

Nil



Tuesday 6 November 2007 - Morning

Time: 1 hour 15 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 18 questions in this question paper. The total mark for this paper is 62. There are 16 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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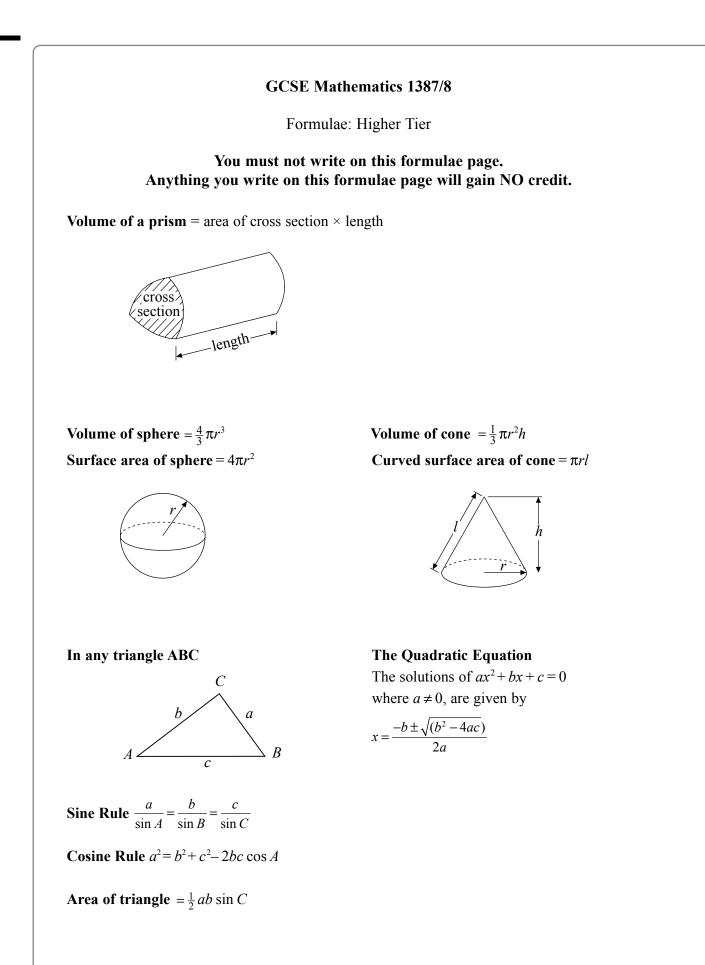
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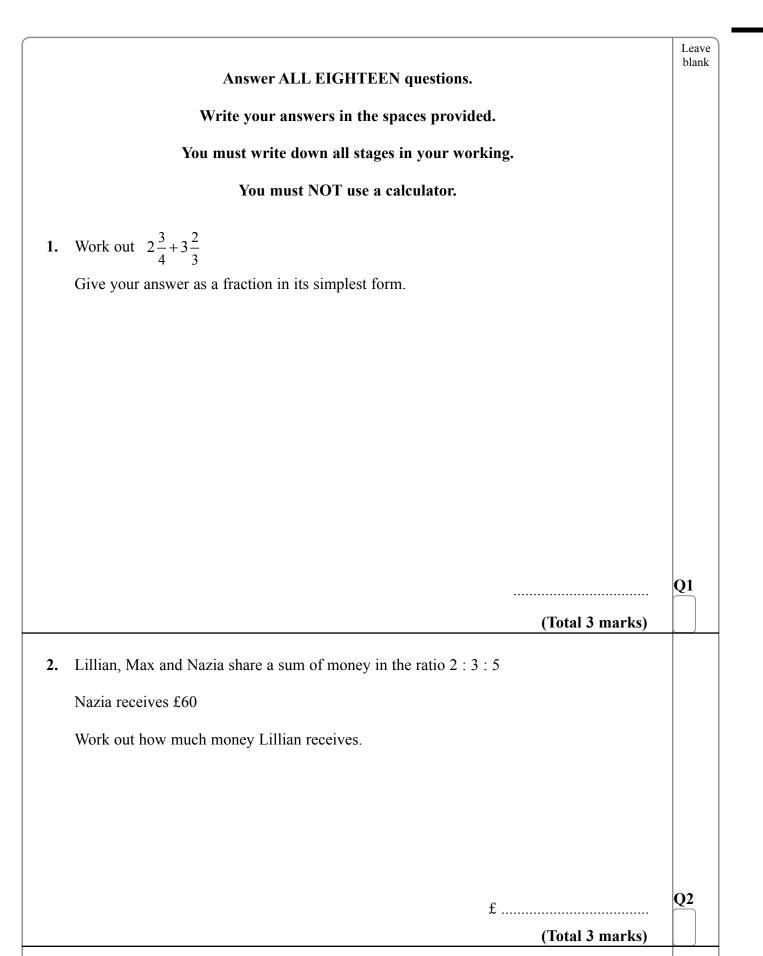


## Turn over

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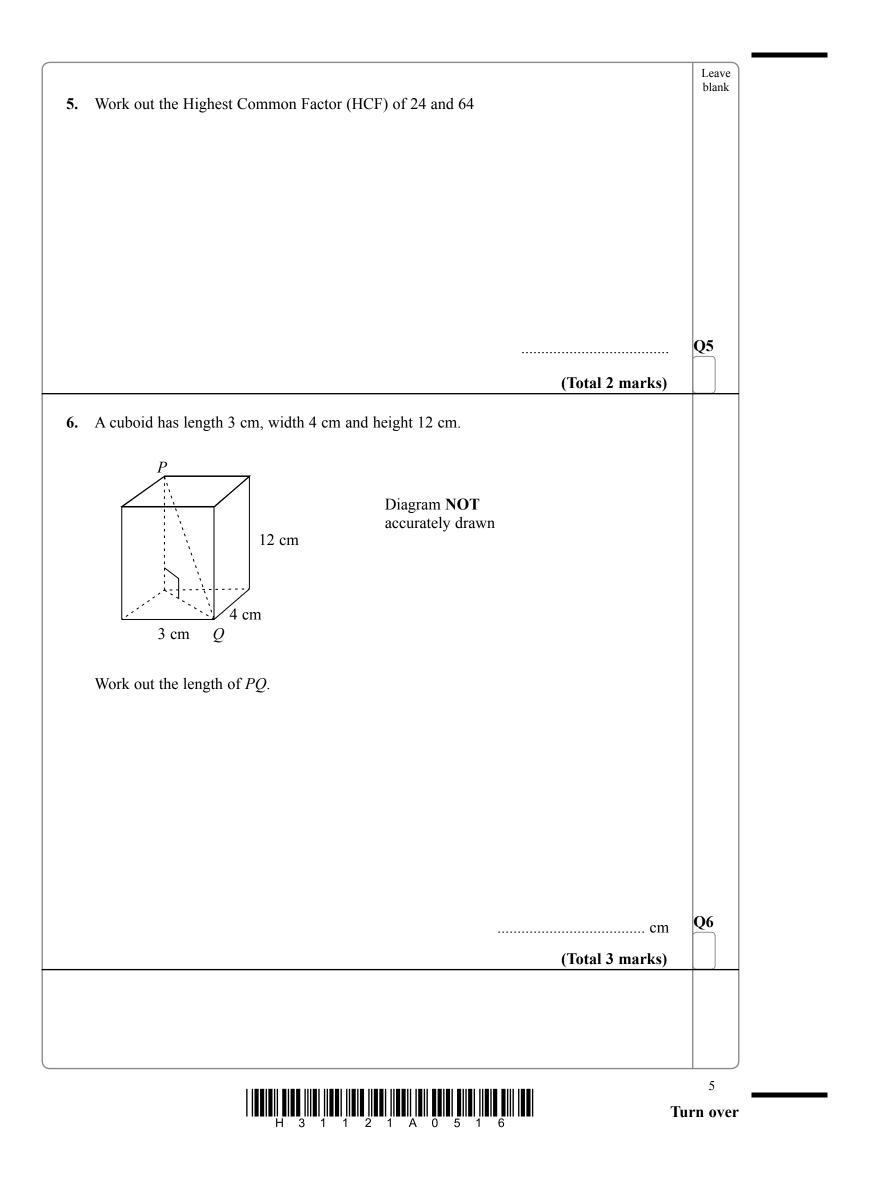


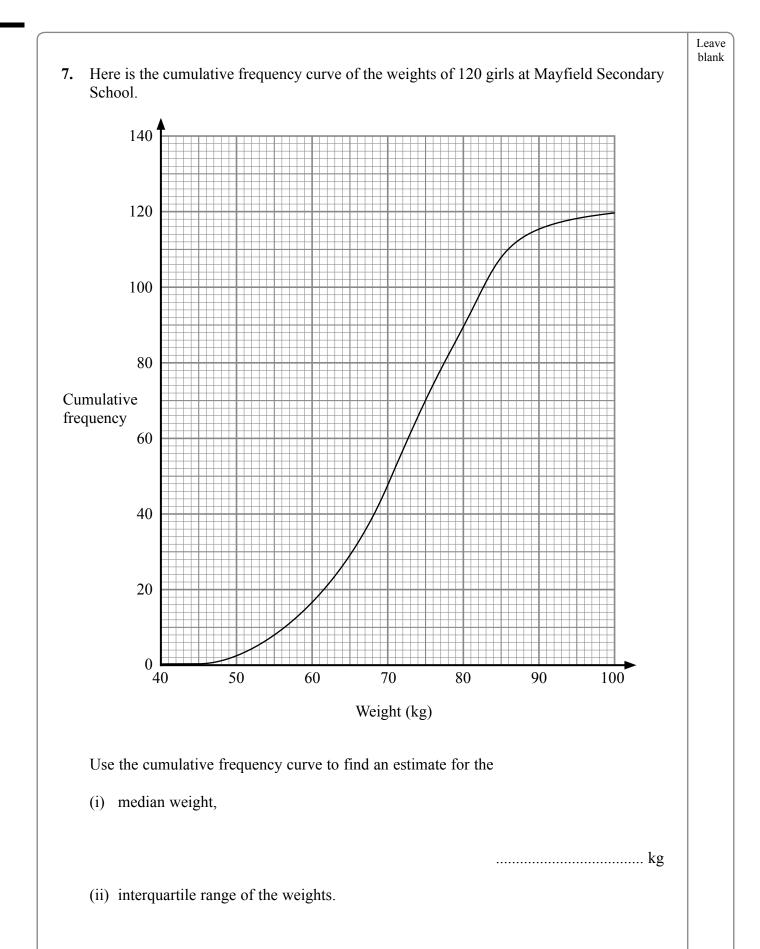




	The cost of hiring a car can be worked out using this rule.	
	$Cost = \pounds 90 + 50p per mile$	
	Zara hired a car.	
	The cost is £240	
	How many miles did Zara drive?	
	miles	
	(Total 3 marks)	
4.	Sarah wants to survey students in her school about which vegetables they eat.	
	These vegetables are on the menu in the school canteen.	
	These vegetables are on the menu in the school canteen. carrots peas cauliflower broccoli swede	
	carrots peas cauliflower broccoli swede Design a suitable question she could use for a questionnaire to find out which of these	
	carrots peas cauliflower broccoli swede Design a suitable question she could use for a questionnaire to find out which of these	
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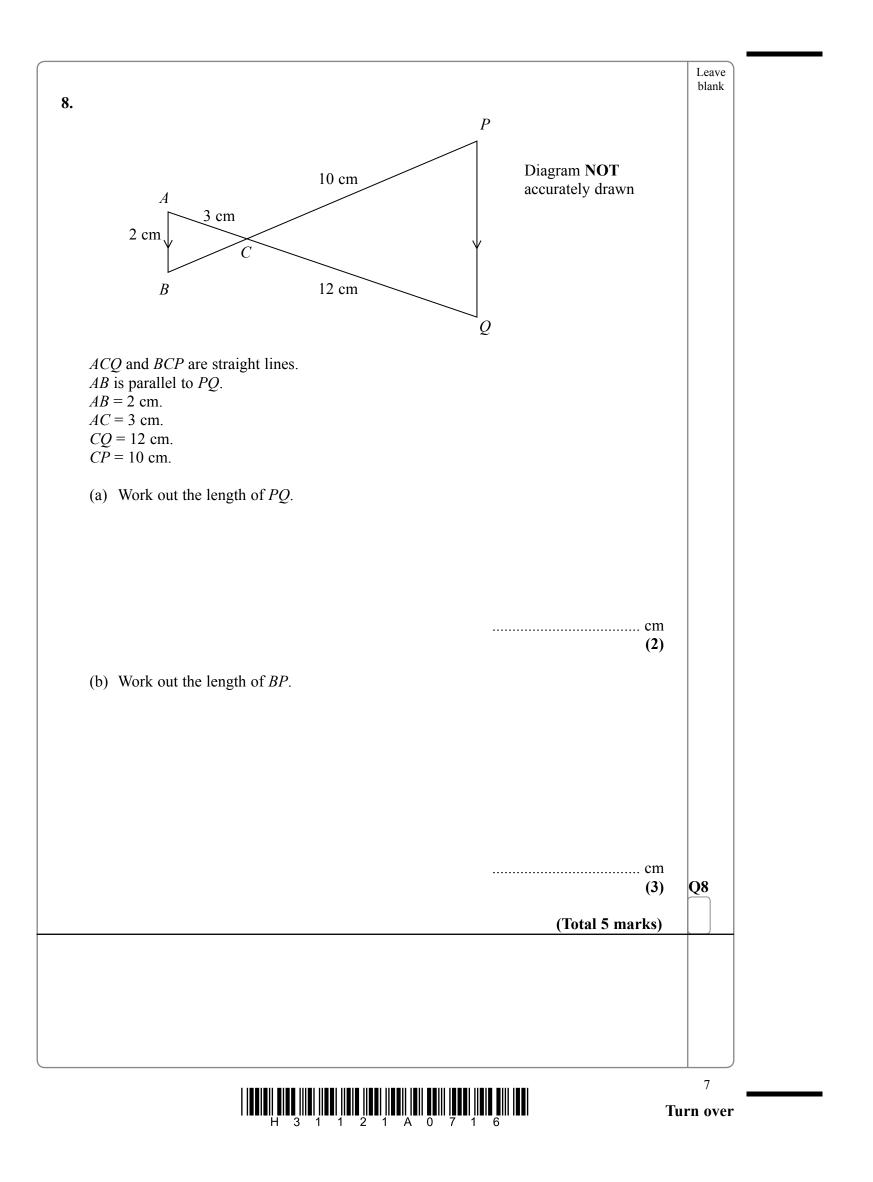


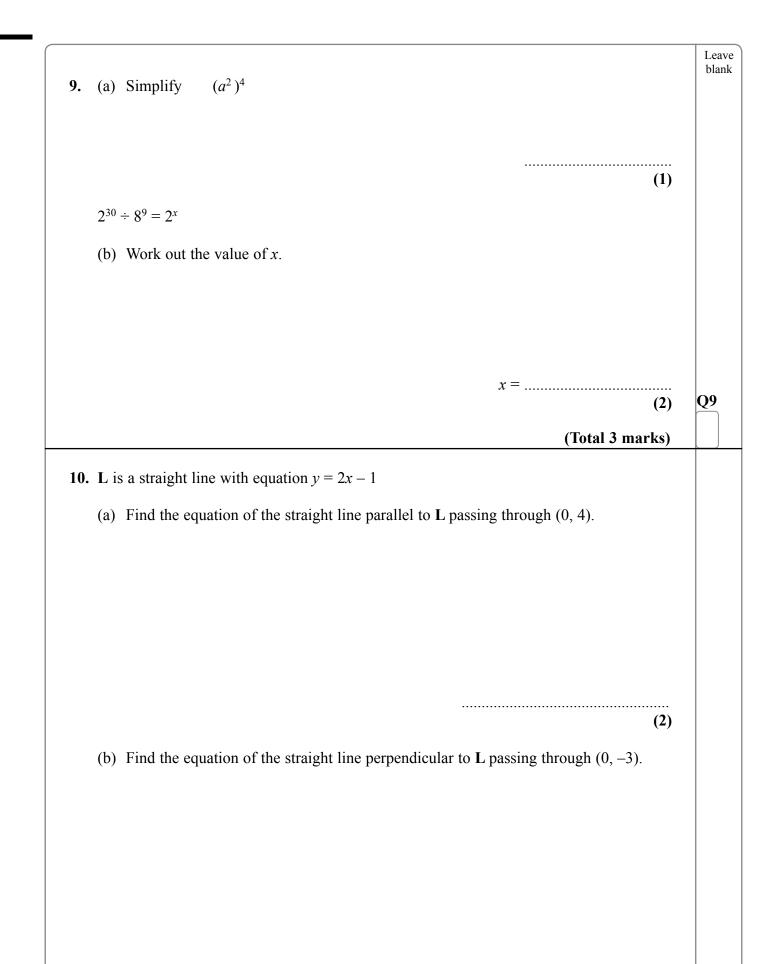






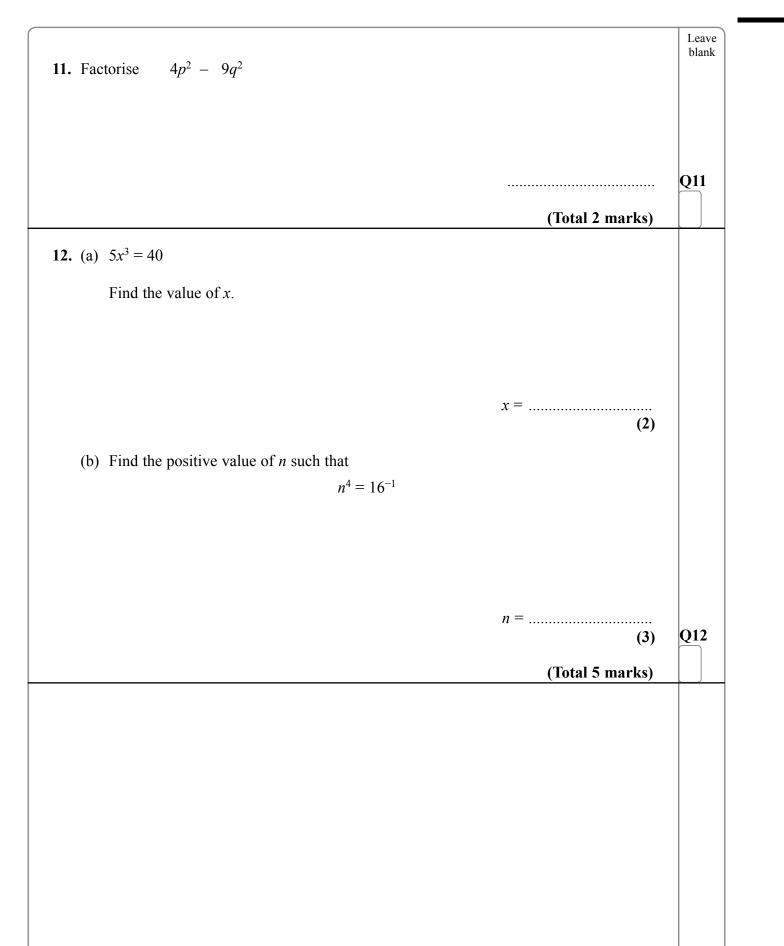




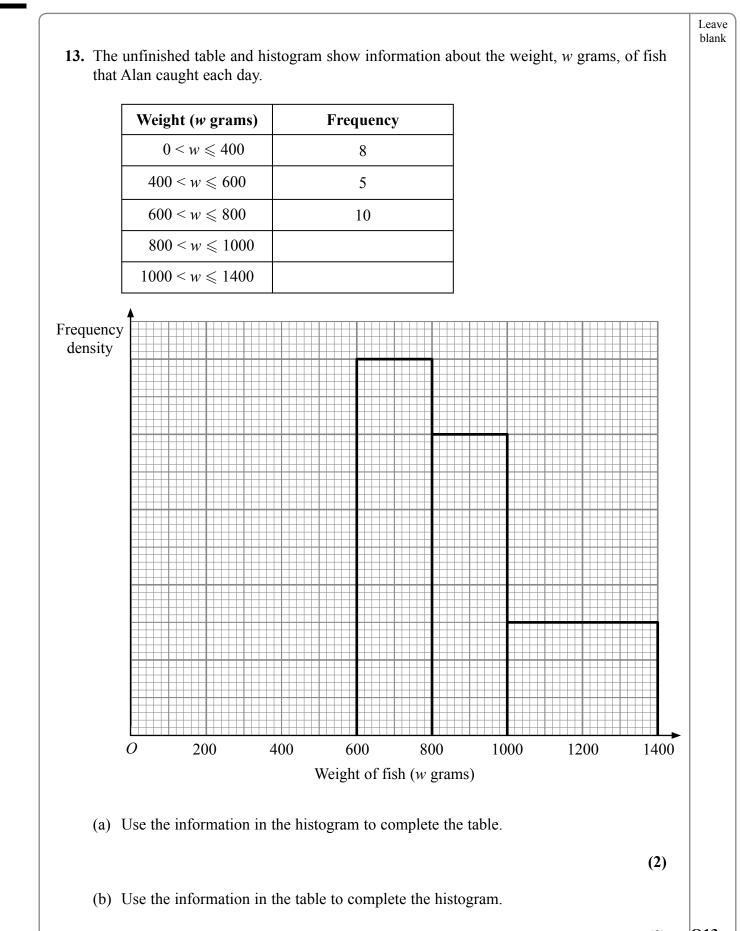
















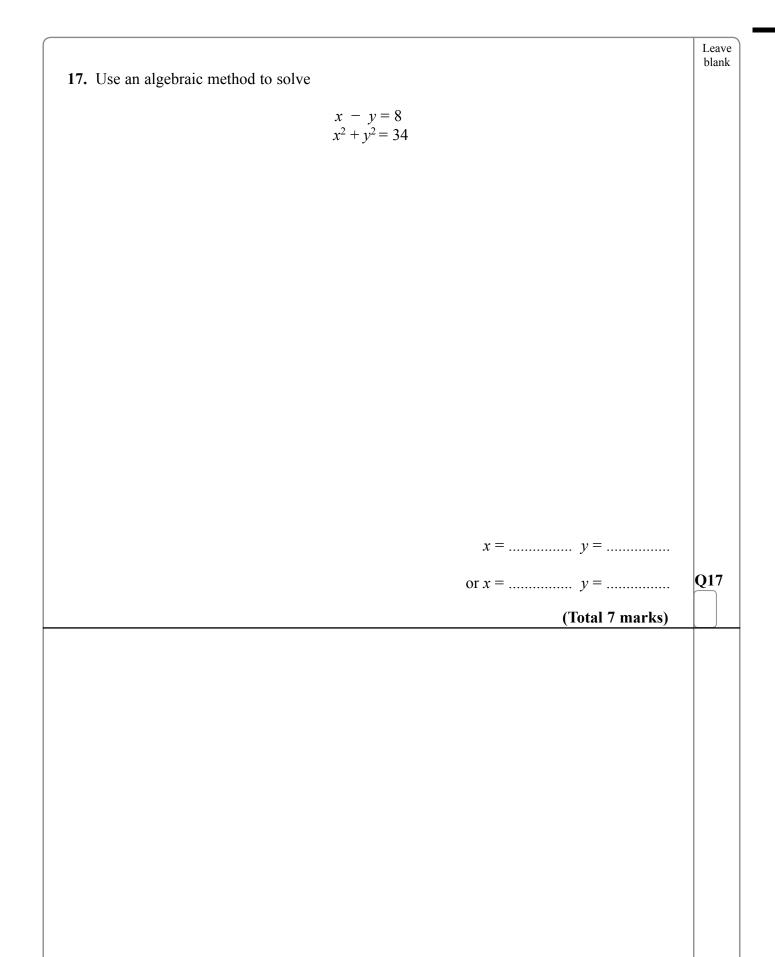
4.	Here are the first 4 lin	es of a	number pattern.			
			$(4\times3)-(2\times1)$			
	2 + 3 + 4 + 5	=	$(5 \times 4) - (3 \times 2)$			
	3+4+5+6	=	$(6 \times 5) - (4 \times 3)$ $(7 \times 6) - (5 \times 4)$			
	4 + 5 + 6 + 7	=	$(7 \times 6) - (5 \times 4)$			
	<i>n</i> is the first number in	n the <i>n</i> t	th line of the number	er pattern.		
	Show that the above n	umber	pattern is true for t	he four consecu	tive integers	
	n, (n+1), (n+1)	+ 2) an	d ( <i>n</i> + 3)			
					(Total 4	marks)
	The volumes of two m	athom	ationlly similar soli	da ara in tha rati		ŕ
.5.	The volumes of two m		-	ds are in the rati		ŕ
5.	The volumes of two m The surface area of the		-	ds are in the rati		ſ
5.		e small	er solid is 36 cm <sup>2</sup> .	ds are in the rati		ŕ
.5.	The surface area of the	e small	er solid is 36 cm <sup>2</sup> .	ds are in the rati		ŕ
5.	The surface area of the	e small	er solid is 36 cm <sup>2</sup> .	ds are in the rati		ſ



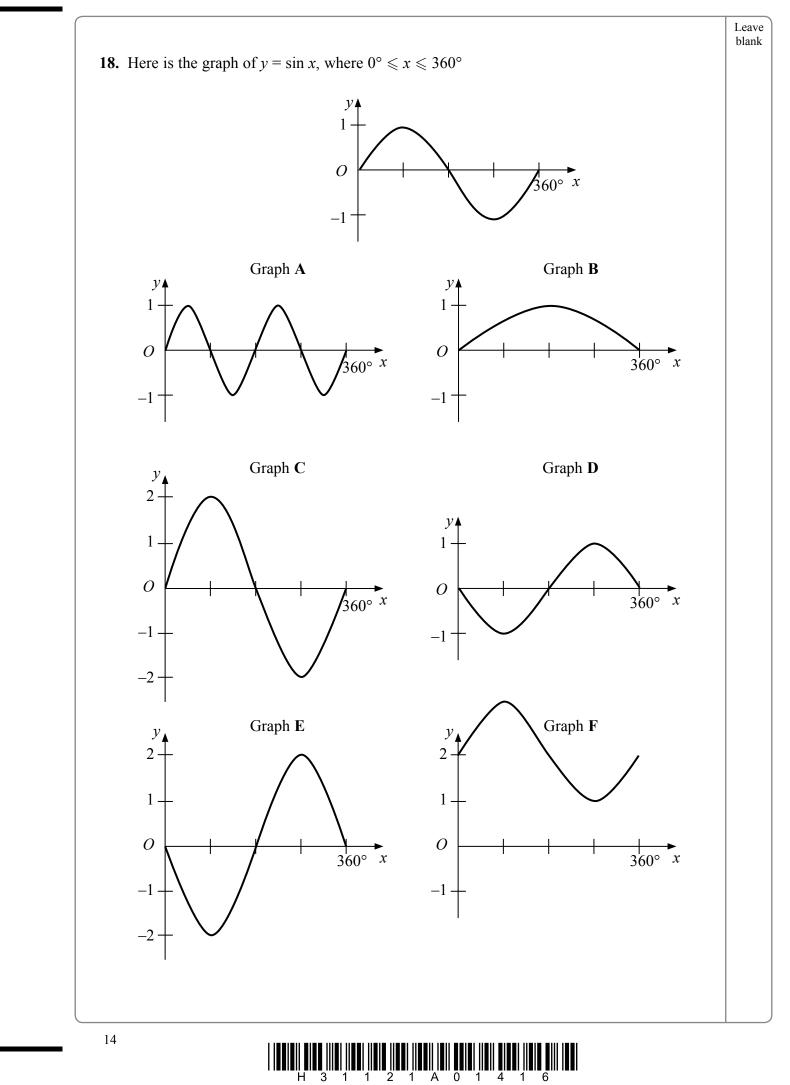
Year group	Number of boys	Number of girls	
7	100	100	
8	150	50	
9	100	100	
10	50	150	
11	100	100	
Total	500	500	
			(Total 2 marks)

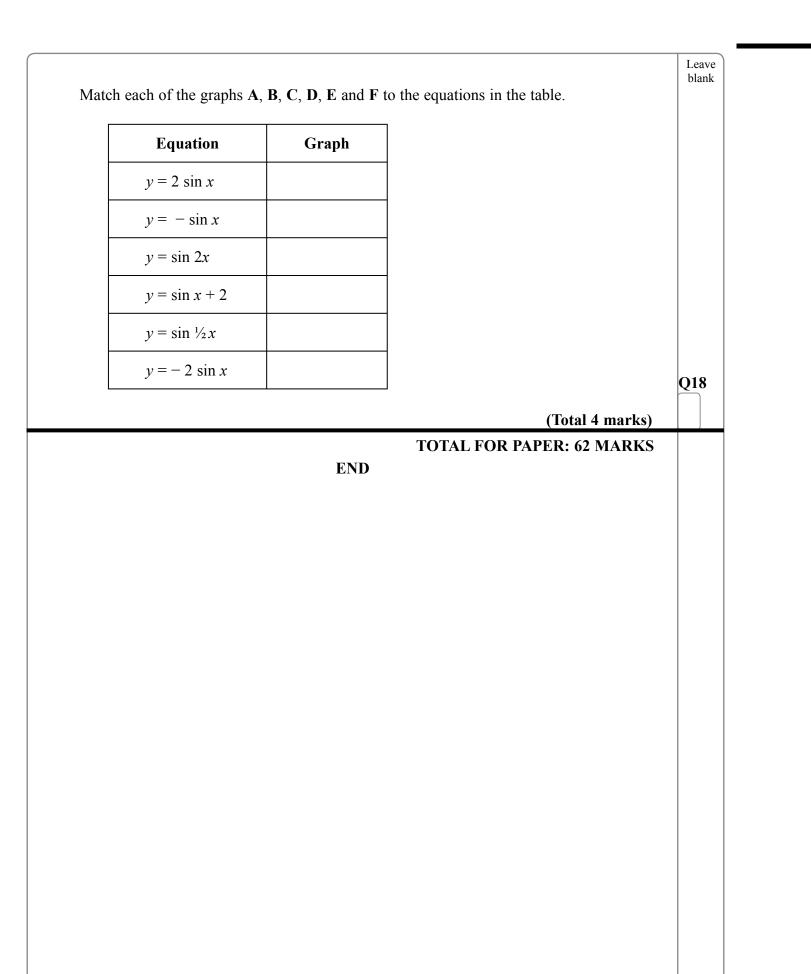
















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