

5538/19

Edexcel GCSE

Mathematics B – 1388

Paper 19 (Calculator)

Higher Tier



Examiner's use only
Team Leader's use only

Friday 9 November 2007 – Morning

Time: 1 hour 15 minutes

Materials required for examination

Items included with question papers Nil

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. 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 17 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 may be used.** If your calculator does not have a π button, take the value of π 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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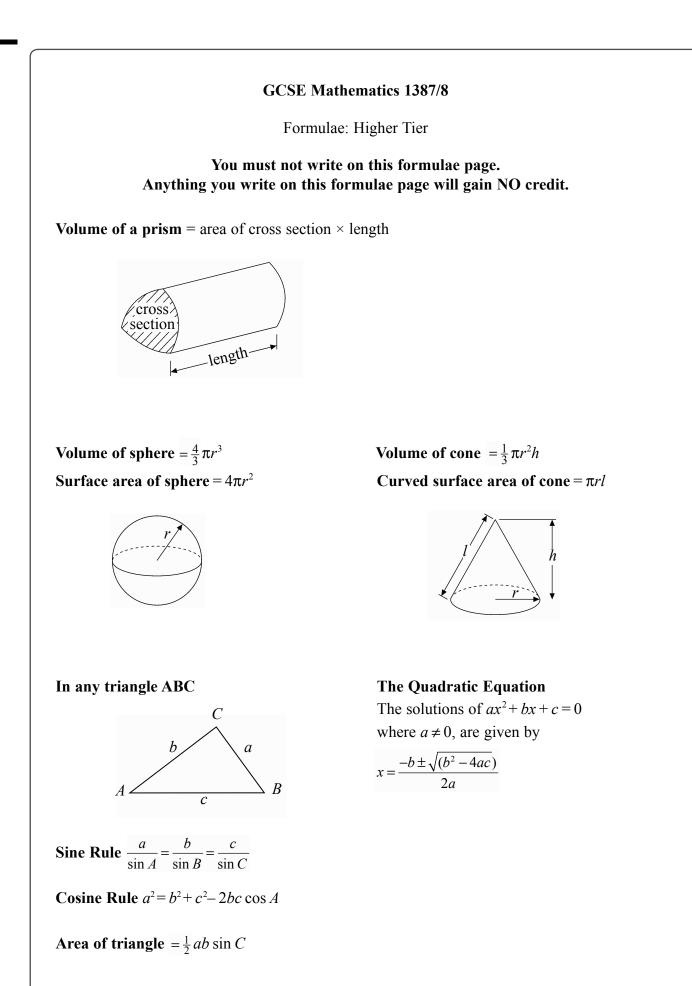
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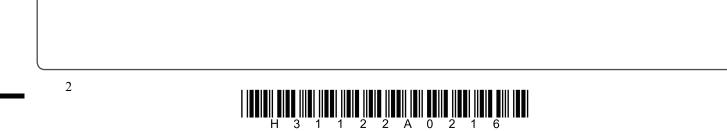
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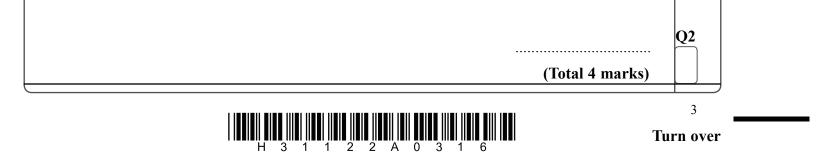
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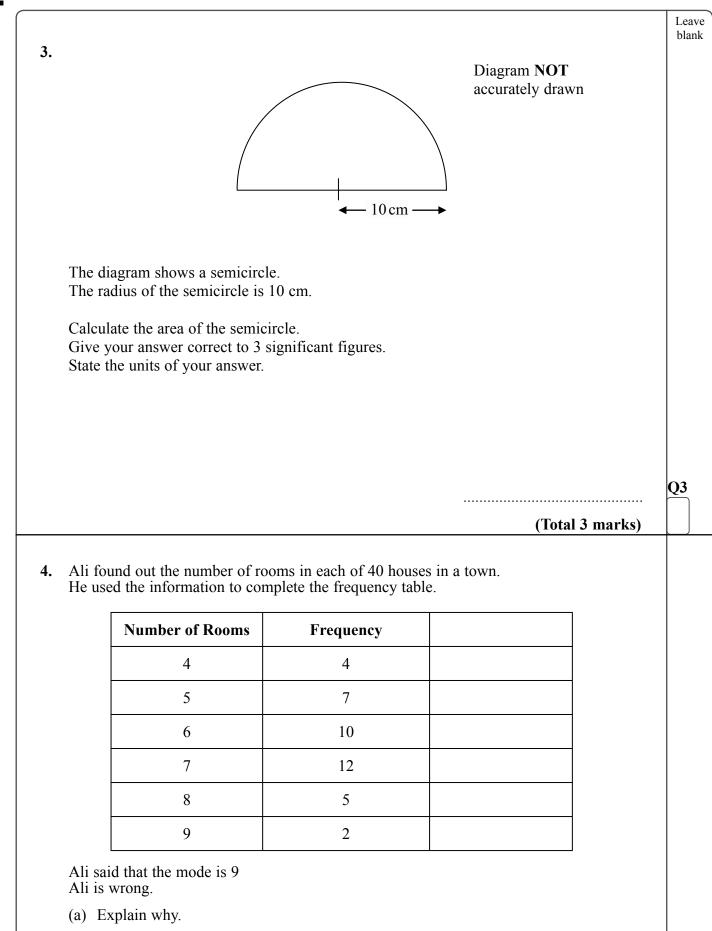
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		Leave
	Answer ALL SEVENTEEN questions.	blank
	Write your answers in the spaces provided.	
	You must write down all stages in your working.	
1.	In April 2004, the population of the European Community was 376 million.	
	In April 2005, the population of the European Community was 451 million.	
	Work out the percentage increase in population. Give your answer correct to 1 decimal place.	
	%	Q1
	(Total 3 marks)	
2.	The equation	
	$x^3 - 5x = 60$	
	has a solution between 4 and 5. Use a trial and improvement method to find this solution. Give your answer correct to 1 decimal place.	
	You must show all your working.	



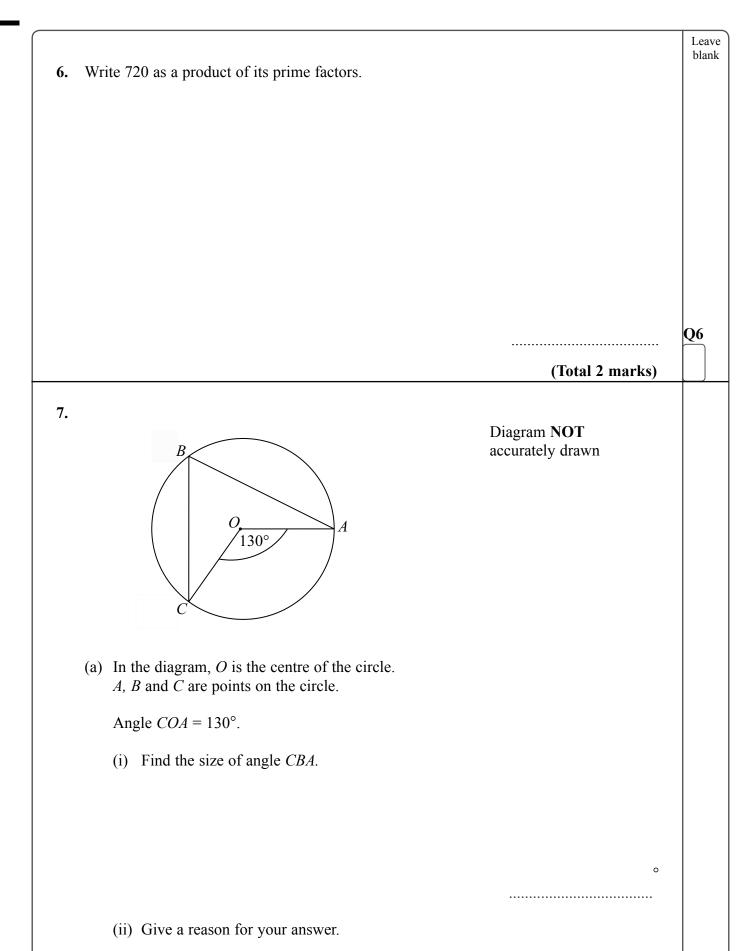






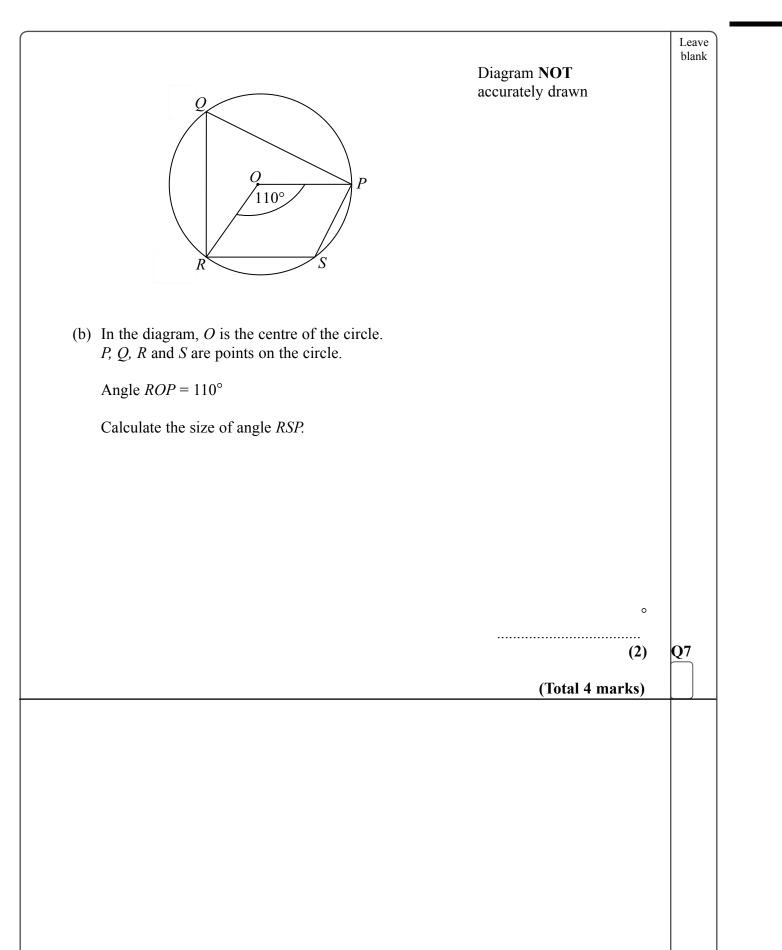
	Number of Rooms	Frequency	
	4	10	
	5	12	
	6	15	
7 8	7	18 17 8	
	8		
	9		
Which of	in number of rooms in Ali's ta the two medians, Ali's or Bec or the median number of roon	cy's, is more likely to	
Which of estimate for	the two medians, Ali's or Bec	cy's, is more likely to	
Which of estimate for	the two medians, Ali's or Bec or the median number of roon	cy's, is more likely to	
Which of estimate for	the two medians, Ali's or Bec or the median number of roon	cy's, is more likely to	
Which of estimate for	the two medians, Ali's or Bec or the median number of roon	cy's, is more likely to	own?







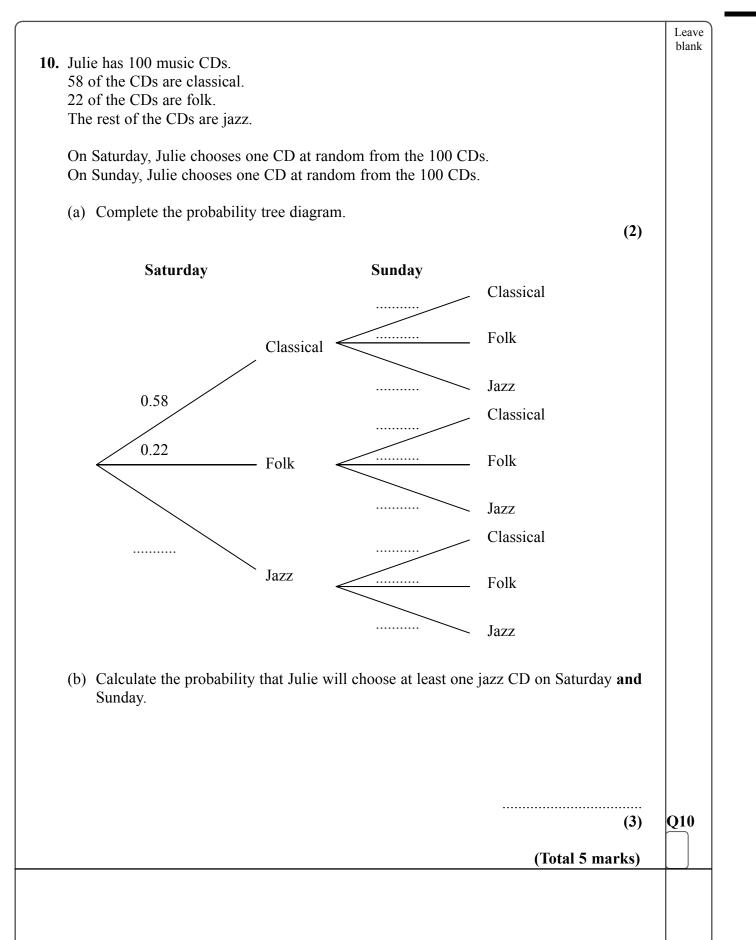




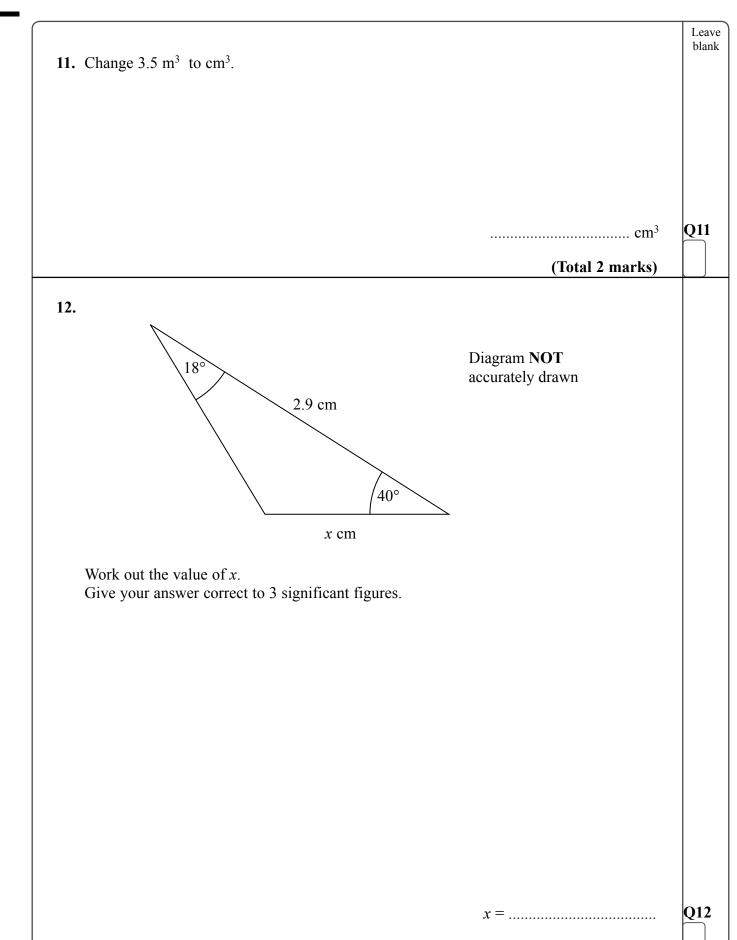


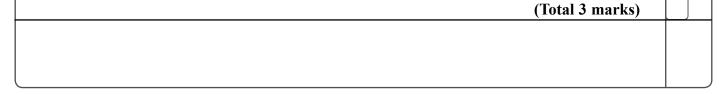
8.	Use your calculator to work out the value of Write down all the figures on your calculator	$\frac{1 - \tan 25^{\circ}}{1 + \tan 25^{\circ}}$ display.	Leave
		(Total 2 marks)	Q8
9.	 <i>f</i> is inversely proportional to <i>d</i>. When <i>d</i> = 50, <i>f</i> = 256 (a) Find the value of <i>f</i> when <i>d</i> = 80 (b) Find the value of <i>d</i> when <i>f</i> = 125 	f =(3) d =(2) (Total 5 marks)	Q9



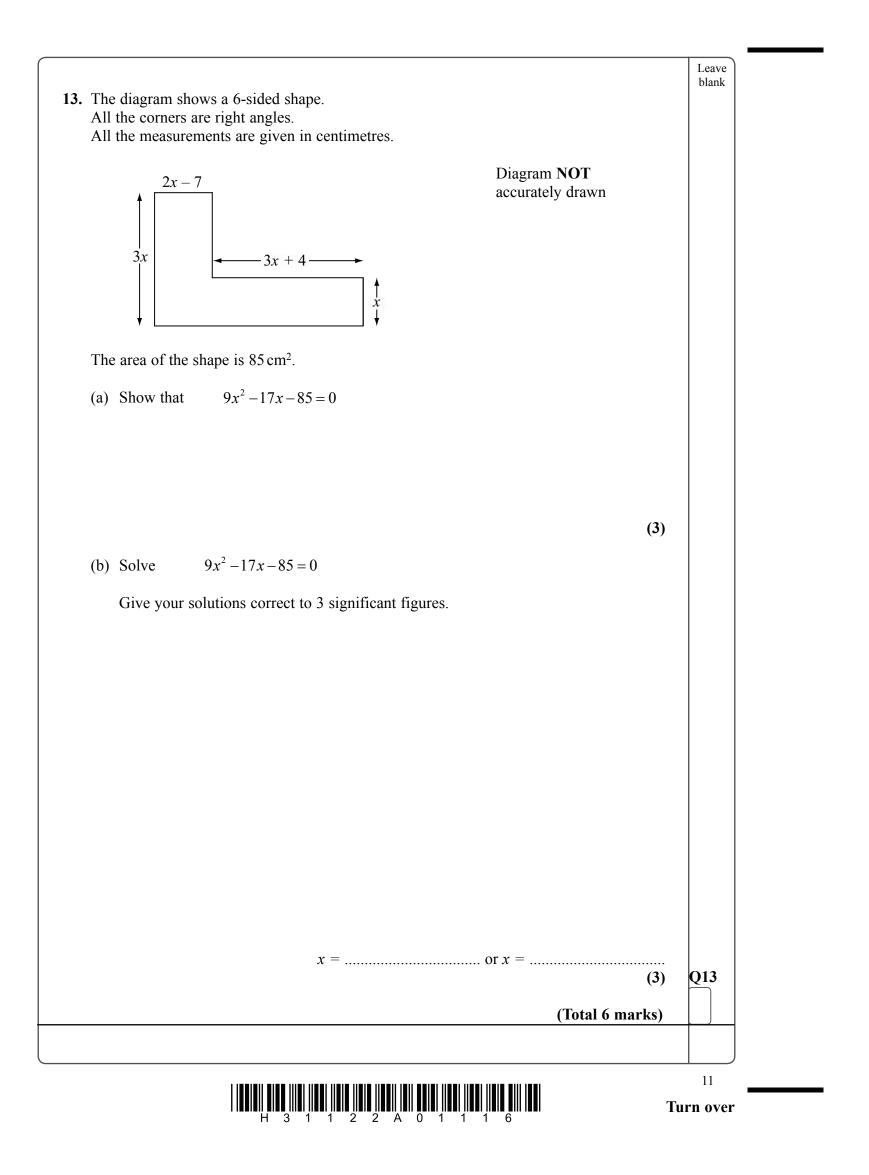


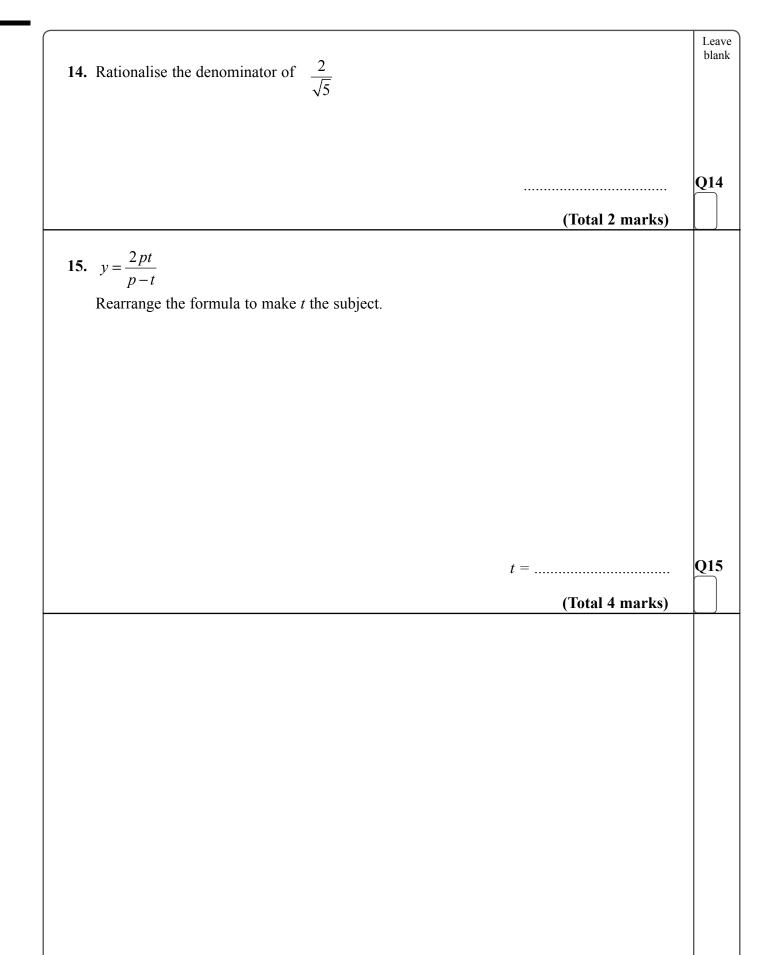






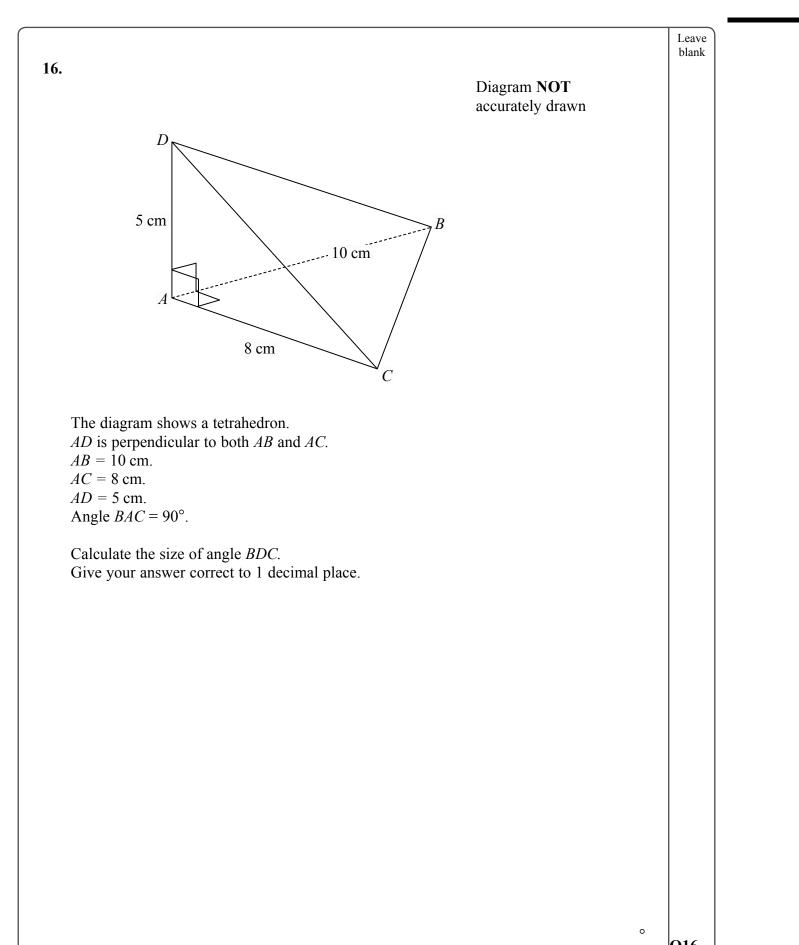




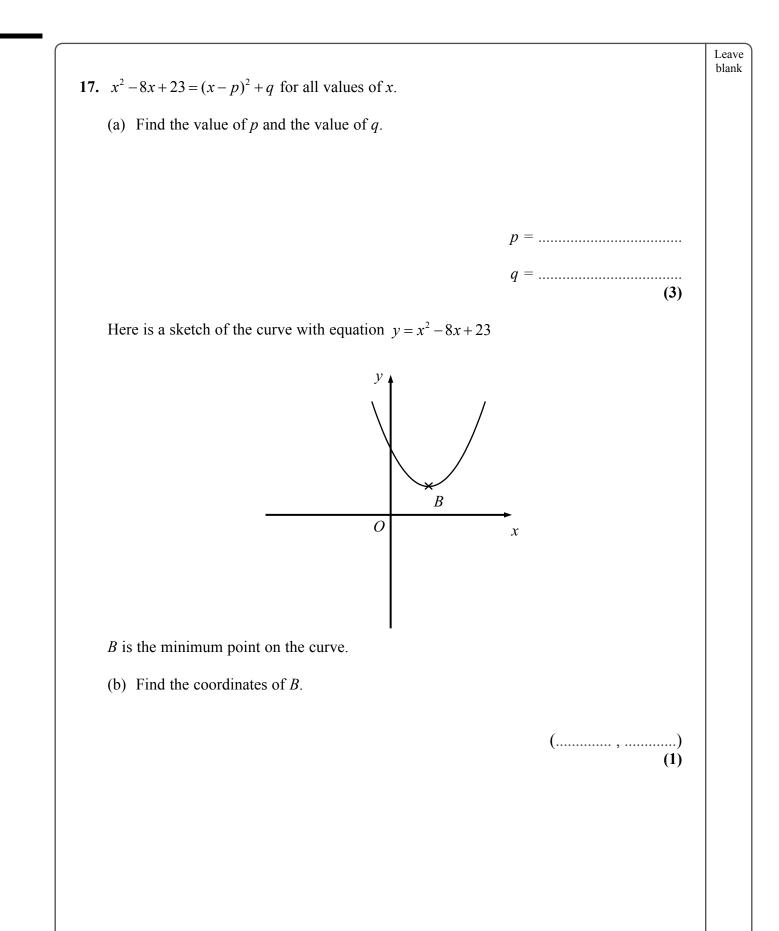




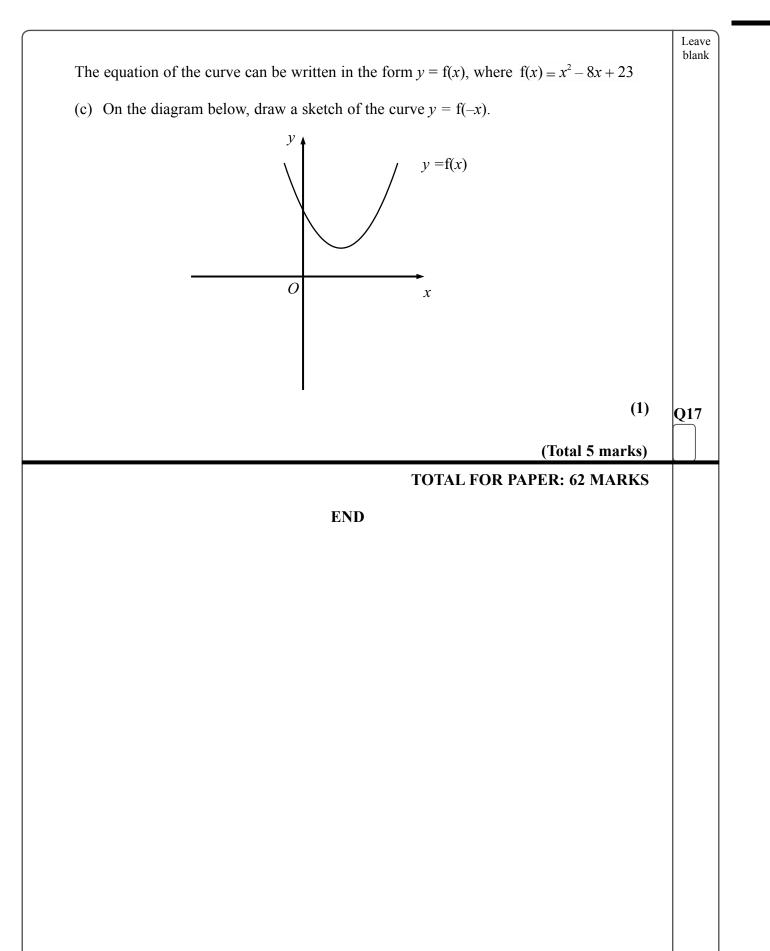
















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