Centre No.						Paper Reference				Surname	Initial(s)			
Candidate No.						5	5	3	6	/	1	7	Signature	
	Paper Reference(s)													

5536/17 Edexcel GCSE

Mathematics B – 1388

Paper 17 (Calculator)

Intermediate 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

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

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 19 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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Turn over

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	Answer ALL NINETEEN questions.	Leave blank
	Write your answers in the spaces provided.	
	You must write down all stages in your working.	
1.	Plain tiles cost 28p each. Patterned tiles cost £9.51 each.	
	Julie buys 450 plain tiles and 15 patterned tiles.	
	(a) Work out the total cost of the tiles.	
	£(3)	
	Fred lays the tiles. He charges £360 plus VAT at 17.5%.	
	(b) Work out the total amount that Fred charges.	
	£	
	(3)	Q1
	(Total 6 marks)	



2. (a) Solve	x + x + x = 15	Leave blank
(b) Solve	x = (1) 4y + 1 = 12	
(c) Simplif	y = (2)	
(d) Simplif	(1) $y 4p + 3q - p - 4q$	
	(2) (Total 6 marks)	Q2
3. Use ruler a 7 centimetro You must sl One side of	and compasses to construct an equilateral triangle with sides of length es. now all your construction lines. the triangle has already been drawn for you.	







6	The cost of 15	ha of possib	ia £0.04				Le bl
0.	The cost of 1.5	kg of peaches	15 £0.84				
	The total cost of	of 3 kg of peac	hes and 2 kg of	apples is £2.34			
	Work out the c	ost of 1 kg of a	apples.				
							06
					(fotal 3 marks)	
7.	Solve $4y + 3 =$	= 2y + 9					
					<i>y</i> =		\mathbf{Q}
					ſ	Fotal 2 marks)	
					(iotai 2 marksj	
8.	The table show	's some expres	ssions.		(
8.	The table show In each express	ys some expression, <i>n</i> is a wh	ssions. ole number.		(
8.	The table show In each express $3n^2$	rs some expression, <i>n</i> is a wh	ssions. ole number. $3 \times 6n$	3 + 6 <i>n</i>	(3 <i>n</i>) ²	n+9	
8.	The table show In each express $3n^2$	ys some expression, <i>n</i> is a wh	ssions. ole number. $3 \times 6n$	3 + 6 <i>n</i>	(3 <i>n</i>) ²	n+9	
8.	The table show In each express $3n^2$	ys some expression, <i>n</i> is a wh	ssions. ole number. $3 \times 6n$	3 + 6 <i>n</i>	(3 <i>n</i>) ²	n+9	
8.	The table show In each express $3n^2$ Tick (\checkmark) the b	ys some expression, <i>n</i> is a wh	each of the thre	3 + 6n e expressions w	$(3n)^2$	$\frac{n+9}{s}$ multiples of 9	QE







Nu	mber of Rooms	Freque	ncy			
	4	4				
	5	7				
	6	10				
	7	12				
	8	5				
	9	2				
Beccy f She use	found out the numbered the information to	r of rooms ir complete th	e ach of 80 ho frequency tal	ouses in th	e same ta	(1) own.
Beccy f She use	found out the number ad the information to Number of H	r of rooms ir complete the Rooms	e each of 80 ho e frequency tal Frequency	ouses in th ble below.	e same t	(1) own.
Beccy f She use	found out the number ad the information to Number of H 4	r of rooms ir complete the Rooms	e each of 80 ho e frequency tal Frequenc 10	buses in th ble below.	e same t	
Beccy f She use	found out the number ed the information to Number of I 4 5	r of rooms ir complete the Rooms	e each of 80 ho e frequency tal Frequenc 10 12	ouses in th ole below.	e same t	(1) own.
Beccy f She use	found out the number ed the information to Number of H 4 5 6	r of rooms ir complete the Rooms	e ach of 80 ho e frequency tal Frequenc 10 12 15	ouses in th ble below.	e same t	
Beccy f She use	found out the number ed the information to Number of H 4 5 6 7	r of rooms ir complete the Rooms	r each of 80 ho e frequency tal Frequency 10 12 15 18	ouses in th ole below.	e same t	(1) own.
Beccy f She use	found out the number ed the information to Number of I 4 5 6 7 8	r of rooms ir complete the Rooms	r each of 80 hc e frequency tal Frequency 10 12 15 18 17	ouses in th ole below.	e same t	(1) own.

Find the median number of rooms.



		Leave
(c)	The median number of rooms in Ali's table is 6	
	Which of the two medians, Ali's or Beccy's, is more likely to give the more reliable estimate for the median number of rooms for a house in this town?	
	Give a reason for your answer.	
	(1)	Q12
	(Total 3 marks)	
13. (i) (ii)	Factorise $x^2 - 7x + 10$ Solve $x^2 - 7x + 10 = 0$	
	(Total 3 marks)	Q13



























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