Centre No.					Paper Reference						Surname	Initial(s)	
Candidate No.					1	3	8	0	/	2	F	Signature	
		Pane	r Reference((s)									

Edexcel GCSE

Mathematics (Linear) – 1380

Paper 2 (Calculator)

1380/2F

Foundation Tier

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

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

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 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.

This publication may be reproduced only in accordance with Edexcel Limited copyright policy. ©2009 Edexcel Limited.







Turn over

advancing learning, changing lives

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)



Leave

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



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?

	es arrives at Powers at results to catch			15
(b)	How many m	inutes should	d 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)	Q8
	(Total 3 marks)	
9.	(a) Write down the value of 10^2	
	(1) (1) 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)	

10. 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) two numbers with a difference of 10	1	
	and (1)	
(d) a multiple of 9		
	(1)	Q10
	(Total 4 marks)	
11. This quadrilateral has two pairs of equal sides.		
1 H		
(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)	
	(1)	Q11
	(Total 3 marks)	
	т. ШЩ	11 urn over

		2	3	3	,	2	4	7	7	1	0	7			
	(a)	Wr	ite do	own t	he m	node.									
														 (1)	
	(b)	Wo	rk ou	it the	rang	ge of	her 1	marks	5.						
	(c)	Wo	rk ou	ıt her	mea	ın ma	ark.							(2)	
														(2)	Q1
													(Total 5 mar	ks)	
13.	(a)	Sin	nplify	7		3 <i>p</i>	+4p)							
														 (1)	
	(b)	Sin	plify	7		e ×	$f \times$	5							
														 (1)	
	(c)	Sin	plify	T		y^2 -	$+y^2 +$	$+ y^2$							
														 (1)	Q1
													(Total 3 mar	ks)	_





16. The accurate pie chart gives some information about the votes received by 3 students in an election.	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°.	
(b) What fraction of the votes did Paul receive? Give your fraction in its simplest form.	
	016
(2) (Total 3 marks)	Q16



17.

1 kg of apples

2 oranges

 $\frac{3}{4}$ kg tomatoes

Work out the total cost.

£	Q17
(Total 4 marks)	
18. <i>p</i> =2	
q = -4	
Work out the value of $3p + 5q$	
	Q18
(Total 2 marks)	
$\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 1 \\ $	

Leave blank

		Leave blank
19. 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 Switzerland Calin huma 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 $\frac{8.7 \times 12.3}{9.5 - 5.73}$		
20. (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)	
(b) Write your answer to part (a) correct to 1 significant fig	jure.	
		Q20
	(1) (Total 3 marks)	
		17
		ırn over

(a) Solve m			т	=		
					(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
					• `	
	tudents which sport ose swimming or te			(Total 5 m	iarks)	
They could cho		nnis or athletics		(Total 5 m Total	larks)	
They could cho	ose swimming or te ble shows some info	nnis or athletics	their answers.			
They could cho The two-way ta	ose swimming or te ble shows some info	nnis or athletics	their answers. Athletics			
They could cho The two-way ta Female Male	ose swimming or te ble shows some info Swimming 36	nnis or athletics ormation about Tennis	their answers. Athletics 19	Total		
They could cho The two-way ta Female	ose swimming or te ble shows some info Swimming	nnis or athletics ormation about Tennis	their answers. Athletics			
They could cho The two-way ta Female Male Total	ose swimming or te ble shows some info Swimming 36	nnis or athletics ormation about Tennis	their answers. Athletics 19	Total	(3)	
They could cho The two-way ta Female Male Total (a) Complete t	ose swimming or te ble shows some info Swimming 36 79	nnis or athletics ormation about Tennis 42	their answers. Athletics 19	Total		
They could cho The two-way ta Female Male Total (a) Complete t One of these 20	ose swimming or te ble shows some info Swimming 36 79 he two-way table.	nnis or athletics ormation about Tennis 42	their answers. Athletics 19 54	Total 200		
They could cho The two-way ta Female Male Total (a) Complete t One of these 20	ose swimming or te ble shows some info Swimming 36 79 he two-way table. 00 students is picked	nnis or athletics ormation about Tennis 42	their answers. Athletics 19 54	Total 200		Q2





24 Soo	n nourdor is sold	l in two sizes of box				Leave blank
24. 50a	p powder is sold	I III two sizes of box				
			Soap Powder	Í I		
			Soup I owder			
	Soap Powder		9kg			
	2kg		6			
	£1.72		£7.65			
	Small box		Large box			
			C			
		s 2kg of soap powd				
A la	arge box contains	s 9kg of soap powde	er and costs £7.65			
Wh	ich size of box g	gives the better value	e for money?			
				•••••••••		
	lain your answe					
You	nust show all y	your working.				
						Q24
					(Total 3 marks)	





N 3 5 5 1 9 A 0 2 2 2

N

28. A piece of wood is 180 cm long. Tom cuts it into three pieces in the ratio 2 : 3 : 4	Leav blan
Work out the length of the longest piece.	
work out the length of the longest piece.	
	cm Q28
(Total 3 r	narks)
29. 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.	
Tou must blow an your working.	
$x = \dots$	
(Total 4 r TOTAL FOR PAPER: 100 M	
	ΑΝΝΟ
END	

_



BLANK PAGE