

1380/2F Edexcel GCSE

Mathematics (Linear) – 1380

Paper 2 (Calculator)

Foundation Tier

Examiner's use only				
Team Leader's use only				

Monday 14 November 2011 – 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.

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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.





a

Leave blank

Volume of prism = area of cross section × length





 A television programme started at 17 55 The programme was 1 hour 20 minutes long. (i) At what time did the programme end? Mumtaz started to watch this programme at 18 34 (ii) How many minutes of the programme did Mumtaz miss? 	Leave blank
minutes (Total 3 marks)	Q2
 3. (a) Write these numbers in order of size. Start with the smallest number. 13.1 0.89 1.2 7.01 (1) (b) Write these numbers in order of size. Start with the smallest number. 2 -8 6 0 -3 (1) 15 - 4 × 2 + 1 = 3 (c) Put brackets in the calculation above to make it correct. 	
(1) (Total 3 marks)	Q3
4	



Leave blank 5. Some children were asked to name their favourite flavour of ice cream. The pie chart and table show some information about their answers. mint vanilla 45° strawberry 120° chocolate Use the pie chart to complete the table. Flavour Number of children Angle of sector 90° vanilla 12 45° mint strawberry 14 chocolate 120° Q5 (Total 3 marks)







Leave blank

8. The table shows which countries the World Snooker champions came from for the years 1992 to 2009

Year	Country
1992	Scotland
1993	Scotland
1994	Scotland
1995	Scotland
1996	Scotland
1997	Ireland

Year	Country
1998	Scotland
1999	Scotland
2000	Wales
2001	England
2002	England
2003	Wales

Year	Country
2004	England
2005	England
2006	Scotland
2007	Scotland
2008	England
2009	Scotland

(a) Complete the tally chart to show this information.

Country	Tally	Frequency
England		
Ireland		
Scotland		
Wales		

(2)

(b) On the grid, draw a bar chart to show this information.





P 4 0 0 8 7 A 0 1 0 2 4

11. The exchange rate to change pounds (£) into US dollars (\$) is $\pounds 1 = \$1.50$

(a) Use this exchange rate to complete the table below.



11

Leave blank

12. The lengths, in minutes, of 10 football matches were	Leave blank
(a) Write down the mode.	
(1)	
(b) Find the range.	
(2)	
(c) Work out the mean.	
(2)	Q12
(Total 5 marks)	
13. (a) Solve $4x = 20$	
$x = \dots $	
(b) Solve $\frac{y}{3} = 9$	
3	
$y = \dots $	Q13
(Total 2 marks)	
12	

14. The diagram shows a solid prism. Diagram accurate	n NOT ely drawn	Leave blank
Write down		
(i) the number of vertices		
(ii) the number of faces		
(iii) the number of edges		Q14
	(Total 3 marks)	
 15. Ron bought 3 kg of potatoes and 2 kg of carrots. The total cost was £5.08 Potatoes cost £1.24 per kg. Work out the cost of 1 kg of carrots. 	(Total 3 marks)	Q15
		13
	Т	urn over

16. The two-way table gives some information about the types of holiday 80 people had.

Leave blank

Adult Child	15	6	28	
Child		-	20	
Ciniu	8			
Total		25		80
Complete the tw	vo-way table.			
				(Total 3 marks)
		D		
52°)		$\frac{D}{x^{\circ}}$		gram NOT rately drawn
		P		
\backslash				
136°				
B				
] C		
<i>BCD</i> is a quad	lrilateral.			
<i>DE</i> is a straigh				
Work out the va	lue of <i>x</i> .			
			<i>x</i> =	
				(Total 3 marks)

18. On the grid, show how this shape tessellates.		Lea bla
You need to draw at least 6 shapes.		
		Q1
	(Total 2 marks)	
(b) Write down your answer to part (a) correct to 2 decimal places.	(2)	
	(1) (Total 3 marks)	Q1
		1:

20.	Ishmal invested £3500 for 3 years at 2.5% per annum simple interest.	Leave blank
	Work out the total amount of interest Ishmal earned.	
	£	Q20
	(Total 3 marks)	
21.	(a) (i) Find all the factors of 30	
	(ii) Find the highest common factor (HCF) of 24 and 30	
	(3)	
	(b) Find the lowest common multiple (LCM) of 4, 5 and 6	
	(2)	Q21
	(Total 5 marks)	
16		



23. Work out the value of $\frac{6^5 \times 6^2}{6^4}$	Leave blank
6^4 Give your answer as a power of 6	
	Q23
(Total 2 marks)	
24. $-2 \le n < 5$ <i>n</i> is an integer.	
(a) Write down all the possible values of n .	
(2)	
(b) Expand and simplify $(x + 5)(x - 3)$	
(2)	Q24
(Total 4 marks)	
18	

25.	Mandy needs a permit to fish in her local river.		Leave blank
	Last year, Mandy paid £140 for a permit. This year the cost of the permit increased by 12%.		
	(a) Work out the cost of the permit for this year.		
		£(3)	
	The largest fish Mandy caught last year weighed 11 kg correct to	o the nearest kg.	
	(b) (i) Write down the smallest possible weight of this fish.		
	(ii) Write down the largest possible weight of this fish.	kg	
	(ii) while down the largest possible weight of this lish.	kg	
		(2)	Q25
		(Total 5 marks)	
26.	Melissa is 13 years old. Becky is 12 years old. Daniel is 10 years old.		
	Melissa, Becky and Daniel share £28 in the ratio of their ages. Becky gives a third of her share to her mother.		
	How much should Becky now have?		
		£	Q26
		(Total 4 marks)	
			19



27. Gary wants to find out how much time teenagers spend listening to music.		Leave blank
He uses this question on a questionnaire.		
How many hours do you spend listening to music?		
1 to 5 5 to 10 10 to 20 over 20		
(a) Write down two things wrong with this question.		
1		
2	•••••	
	(2)	
(b) Design a better question for Gary's questionnaire to find out how much time	teenagers	
spend listening to music.		
	(2)	Q27
(Total 4	4 marks)	



28. The diagram shows a right-angled triangle.

Diagram NOT accurately drawn

12 cm 6 cm

Calculate the area of the right-angled triangle. Give your answer correct to 2 decimal places.

$\begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	21 Surn ove
(Total 4 marks)	
cm^2	Q28

Leave blank **29.** The diagram shows a CD. The CD is a circle of radius 6 cm. Diagram NOT accurately drawn 6 cm CDs of this size are cut from rectangular sheets of plastic. Each sheet is 1 metre long and 50 cm wide. Work out the greatest number of CDs that can be cut from one rectangular sheet. Q29 (Total 2 marks) **TOTAL FOR PAPER: 100 MARKS** END



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