

## 1380/1F Edexcel GCSE Mathematics (Linear) – 1380

Paper 1 (Non-Calculator) Foundation Tier



Friday 2 March 2012 – Afternoon Time: 1 hour 30 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 25 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 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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Turn over



## 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





0 A 0 3

P

0 6 3

**Turn over** 

<b>2.</b> (a) Work out	24 × 20	Leave blank
(b) Work out	(1)	
(c) Work out	(2) 18 + 24 + 12	
	(1) (Total 4 marks)	Q2



Here		C	· 1				
	e is part of a so	equence of	patterns made	e of sticks.			
	Pattern number 1		Pattern number 2		Pattern number 3		
(a)	In the space b	elow, draw	Pattern num	per 4			
							(1)
(b)	Complete the	table.	,		1		
	Pattern number	1	2	3	4	5	
	Number of sticks	5	9	13			
							(2)
	has 100 stick						(1)
Iach	says he can n	is. nake a patte	1				
Josh Josh			ern in the sequ	uence using	all the sticks.		
Josh Josh (d)	Is Josh correc	t?	ern in the sequ	uence using	all the sticks.		
Josh Josh (d)	Is Josh correc	rt?	ern in the seq	uence using	all the sticks.		
Josh Josh (d)	Is Josh correc Give a reason	t? for your a	nswer.	uence using	all the sticks.		
Josh Josh (d)	Is Josh correc Give a reason	t? for your a	nswer.	uence using	all the sticks.		
Josh Josh (d)	Is Josh correc Give a reason	t?	nswer.	uence using	all the sticks.	(Total 5	
Josh Josh (d)	Is Josh correc Give a reason	t?	nswer.	uence using	all the sticks.	(Total 5	



P 4 0 6 3 0 A 0 6 2 4



6.	Leave blank
<ul><li>(a) Write down the fraction of the shape that is shaded. Give your fraction in its simplest form.</li></ul>	
(2) (b) Work out 10% of £50	
(c) Change $\frac{3}{4}$ to a decimal. (2)	
(1) (Total 5 marks)	Q6

7.	There are 24 men in a room.	Leave blank
	$\frac{1}{2}$ of the men are wearing a red shirt.	
	$\frac{1}{3}$ of the men are wearing a green shirt.	
	The rest of the men are wearing a blue shirt.	
	Work out the number of men wearing a blue shirt.	
		Q7
0	(Iotai 5 marks)	
0.	Here is a design made from white rectangles and grey rectangles.	
	Diagram <b>NOT</b> accurately drawn	
	A B A B A B A	
	$4.8 \qquad 3.6 \qquad \bullet$	
	Each white rectangle has a length of 4.8 cm.	
	Each grey rectangle has a length of 3.6 cm.	
	Work out the total length of the design.	
	cm	<b>Q8</b>
	(Total 2 marks)	
		9
	I IIII IIII IIII IIIII IIIII IIIII IIIII	rn ove

<b>9.</b> (a) Simplify $2x + 2x$	Leave blank
(1)	
(b) Simplify $5y - 2y$	
(1) (c) Simplify $2 \times 4p$	
(1) (Tatal 2 marks)	<b>Q9</b>
(lotal 3 marks)	
<b>10.</b> In the morning Fred walks 400 m from home to school. After school, he walks 400 m from school to home.	
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	Leave blank
11. Here is a rectangle.	
Junctic LineDiagram NOT accurately drawn10 cm10 cm	
The length of the rectangle is 10 cm. The width of the rectangle is 4 cm.	
(a) Work out the area of the rectangle.	
cm <sup>2</sup>	2
The rectangle is to be enlarged by scale factor 2	
(b) Work out the length and the width of the enlarged rectangle.	
Length cm	L
Width cm (2)	) Q11
(Total 4 marks)	
	11 Turn over

Leave blank **12.** Here is an incomplete pictogram. It shows the numbers of cars in a car park at 4 pm on Monday, Tuesday and Wednesday of one week. Monday Key ( represents 4 cars  $\square$ Tuesday Wednesday Thursday Friday (a) Write down the number of cars in the car park at 4 pm on Monday. (1) (b) Write down the number of cars in the car park at 4 pm on Tuesday. ..... (1) On Thursday, there were 16 cars in the car park at 4 pm. (c) Show this on the pictogram. (1) On Friday, there were 10 cars in the car park at 4 pm. (d) Show this on the pictogram. Q12 (1) (Total 4 marks)



Leave blank **13.** Here are 5 rows of numbers. Row A 4 8 2 6 10 12 14 16 Row B 7 9 3 5 11 13 15 17 Row C 2 3 5 7 11 13 17 . . . . . . Row D 1 2 5 10 20 50 100 200 **Row E** 1 2 4 8 16 32 64 . . . . . . All the numbers are even in one of the rows. (a) Which row? ..... (1) The numbers in row C are the first 7 prime numbers written in order of size. (b) Write down the next prime number. (1) (c) Write down a square number from row D. ..... (1) The numbers in row E are the first seven numbers of a sequence. (d) Work out the next number in the sequence. ..... Q13 (1) (Total 4 marks)

P 4 0 6 3 0 A 0 1 3 2 4

14 (a) What is the sum of the angles in a triangle?	Leave blank
• (a) what is the sum of the angles in a thangle:	
(1)	
Diagram <b>NOT</b> accurately drawn $\frac{x^{\circ}}{80^{\circ}}$	
(b) (i) Write down the value of $w$ .	
(ii) Give a reason for your answer.	
(2)	
(c) Work out the value of <i>x</i> .	
(d) Work out the value of <i>y</i> .	
	Q14
(Total 6 marks)	



5. Here is	s a menu in a café.			Leave blank	
	Menu				
	Starter	Main Course			
	Soup	Chicken			
	Melon	Fish			
		Omelette			
A mea One po Charlie (a) M Or	l is a starter and a main course. ossible meal is Soup and Chicken, (S e wants to choose a meal. ake a list of all the different meals s ne has been done for you.	S, C). he can have.			
(S	, C)				
			(2)		
A mea	l is chosen at random.				
(b) W	hat is the probability that the meal w	vill be Melon and Chicken?			
			(1)		
The ca	fé adds fruit juice as another starter.				
Charlie	Charlie says 'Now there will be one more meal to choose from'.				
(c) Sh	now that Charlie is wrong.				
			(1)	Q15	
		(Tota	l 4 marks)		





17. (a)	Work out $\frac{2}{3} \times \frac{9}{10}$	Leave blank
	Give your answer in its simplest form.	
	(2)	
(b)	Eric, the cat, eats $\frac{2}{3}$ of a tin of cat food every day.	
	How much cat food will Eric eat in 7 days?	
	tins	
	(2)	Q17
	(Total 4 marks)	
		17

P 4 0 6 3 0 A 0 1 7 2 4

		Leave
18.	There are only red counters, blue counters and green counters in a bag.	Ulalik
	There are 5 red counters.	
	There is 1 green counter.	
	Jim takes at random a counter from the bag.	
	(a) (i) Work out the probability that he takes a red counter.	
	(11) Work out the probability that he takes a counter that is <b>not</b> red.	
	(3)	
	Jim puts the counter back in the bag. He then puts some more green counters into the bag.	
	The probability of taking at random a red counter is now $\frac{1}{3}$	
	(b) Work out the number of green counters that are now in the bag.	
	(2)	Q18
	(Total 5 marks)	

<b>19.</b> Work out an estimate for the value of $\frac{6}{3}$	0.2×0.799
Give your answer as a decimal.	223
	019
	(Total 3 marks)
<b>20.</b> (a) Solve $13x + 1 = 11x + 8$	
	$x = \dots $
(b) Solve $\frac{2y}{5} = 4$	
5	
	$y = \dots$
	(Z) Q20 (Total 4 marks)
	<b>Turn over</b>



Leave





![](_page_22_Figure_0.jpeg)

P 4 0 6 3 0 A 0 2 3 2 4

![](_page_23_Picture_0.jpeg)

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