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

Paper Reference(s

1380/2F

Edexcel GCSE

Mathematics (Linear) – 1380

Paper 2 (Calculator)

Foundation Tier

Friday 11 June 2010 – 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

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 27 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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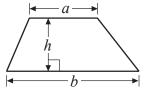
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GCSE Mathematics (Linear) 1380

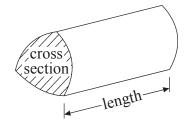
Formulae: Foundation Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = area of cross section \times length



		Leave blank
	Answer ALL TWENTY SEVEN questions.	
	Write your answers in the spaces provided.	
	You must write down all stages in your working.	
1.	Here is an incomplete pictogram. It shows the numbers of hours of sunshine on Monday, Tuesday, Wednesday, Thursday and Saturday of one week.	
	Monday	
	Tuesday	
	Wednesday O D	
	Thursday Key: Represents 4 hours	
	Friday	
	Saturday	
	Sunday	
	(a) Write down the number of hours of sunshine on Wednesday.	
	(1)	
	(b) Write down the number of hours of sunshine on Monday.	
	(1)	
	On Friday, there were 8 hours of sunshine.	
	(c) Show this on the pictogram. (1)	
	On Sunday, there were 6 hours of sunshine.	
	(d) Show this on the pictogram. (1)	Q1
	(Total 4 marks)	

N 3 6 7 6 0 A 0 3 2 4

3

2. (a) Write down two pounds eighty pence in figures.	Leave blank
£(1)	
(b) Write down two pounds and six pence in figures.	
£(1)	Q2
(Total 2 marks)	
3. (a) Write down the mathematical name for each of these 3-D shapes.	
(i) (iii) (iii)	
(i) (iii) (iii)	
(3)	
(b) Here is a solid prism made from centimetre cubes. Diagram NOT accurately drawn 1 cm ³	
Find the volume of the prism.	
cm ³ (1)	Q3
(Total 4 marks)	

	. 1	1 .						Lea bla
	stage number mady 10 and then add							
	Input \(\sum_{\chi} \)	× 10		+ 3		Output		
Complete the	table.							
		Input	Output					
		1	13					
		2	23					
		5						
		8	83					
			103					
					(Total 2 n	narks)	Q4
. Impossible	Unlikely	Even	chance	Likely		Total 2 n	narks)	Q4
Impossible	Unlikely ds above, choose						narks)	Q4
Impossible From the word		what best of	describes the	probability			narks)	Q4
Impossible From the word	ds above, choose	what best of	describes the	probability			marks)	Q4
Impossible From the word (a) that the su	ds above, choose	what best on the second what best of the second which we have the second which we have the second when the second which we have the second when the second which we have the second when the second which we have the second	describes the ar in London	probability				Q4
Impossible From the word (a) that the su	ds above, choose vun will shine in Ju	what best on the second what best of the second which we have the second which we have the second when the second which we have the second when the second which we have the second when the second which we have the second	describes the ar in London	probability				Q4
From the word (a) that the su (b) that the no	ds above, choose vun will shine in Ju	what best on the second will be a	describes the ar in London a boy,	probability			(1)	Q4

(Total 3 marks)

Leave blank **6.** (a) Draw a circle of radius 5 cm. Use the point O, marked with a (\times) , as the centre of your circle. $\times O$ (1) (b) (i) On the diagram mark, with arrows (>>), a pair of parallel lines. (1) (ii) On the diagram mark, with a letter R, a right-angle. (1) **Q6** (Total 3 marks)

	Metric	Imperial		
The height of a door		feet		
The weight of a man	kilograms			
The volume of water in a bucket		gallons		Q7
		(Tota	al 3 marks)	Q,
(a) Work out 5 ²				
		•••••	(1)	
(b) Find the square root o	f 3.24		(1)	
(b) Find the square root o	f 3.24		(1)	
(b) Find the square root o	f 3.24		(1)	
(b) Find the square root o	f 3.24		(1)	Q8
(b) Find the square root o	f 3.24	(Tota		Q8
		(Tota	(1)	Q8
	ns of a number sequence.	(Tota	(1)	Q8
Here are the first four term 7 10	ns of a number sequence.		(1)	Q8
Here are the first four term 7 10	ns of a number sequence.		(1)	Q8
Here are the first four term 7 10	ns of a number sequence.		(1)	Q8
Here are the first four term 7 10	ns of a number sequence.		(1)	Q8
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Here are the first four term 7 10	ns of a number sequence. 13 16 erm in this number sequence		(1)	Q8

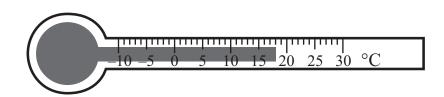


10. Here is a rectangle.	Leave blank
10. Here is a rectangle.	
(a) Draw all the lines of symmetry of this rectangle. (2)	
Here is a regular pentagon.	
(b) Write down the order of rotational symmetry of this regular pentagon.	
(1)	
Here is a shape.	
(c) Write down the order of rotational symmetry of this shape.	
(1)	Q10
(Total 4 marks)	
(Total 4 marks)	

Leave blank

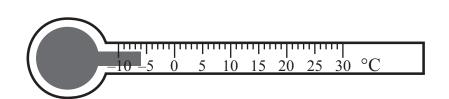
11. (a) Write down the temperature shown on each of these thermometers.

(i)



.....°C

(ii)



.....°C (2)

The table shows the temperatures, in London, at different times on New Years Day, 2008

Time of day	Temperature
6 am	-3°C
10 am	0°C
noon	2°C
2 pm	5°C
6 pm	4°C
10 pm	-1°C

(b) Write down the lowest temperature.

 °C
(1)

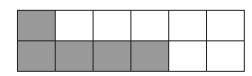
(c) Work out the difference in temperature between 6 pm and 10 pm.

.....°C (1) Q11

(Total 4 marks)

9

12.



(a) What fraction of the shape is shaded?

(1)

Leave blank

(b) Here is a list of fractions.

 $\frac{2}{10}$ $\frac{4}{20}$ $\frac{5}{20}$ $\frac{10}{50}$ $\frac{3}{10}$

Two of the fractions are **not** equivalent to $\frac{1}{5}$

Write down these two fractions.

..... and(2)

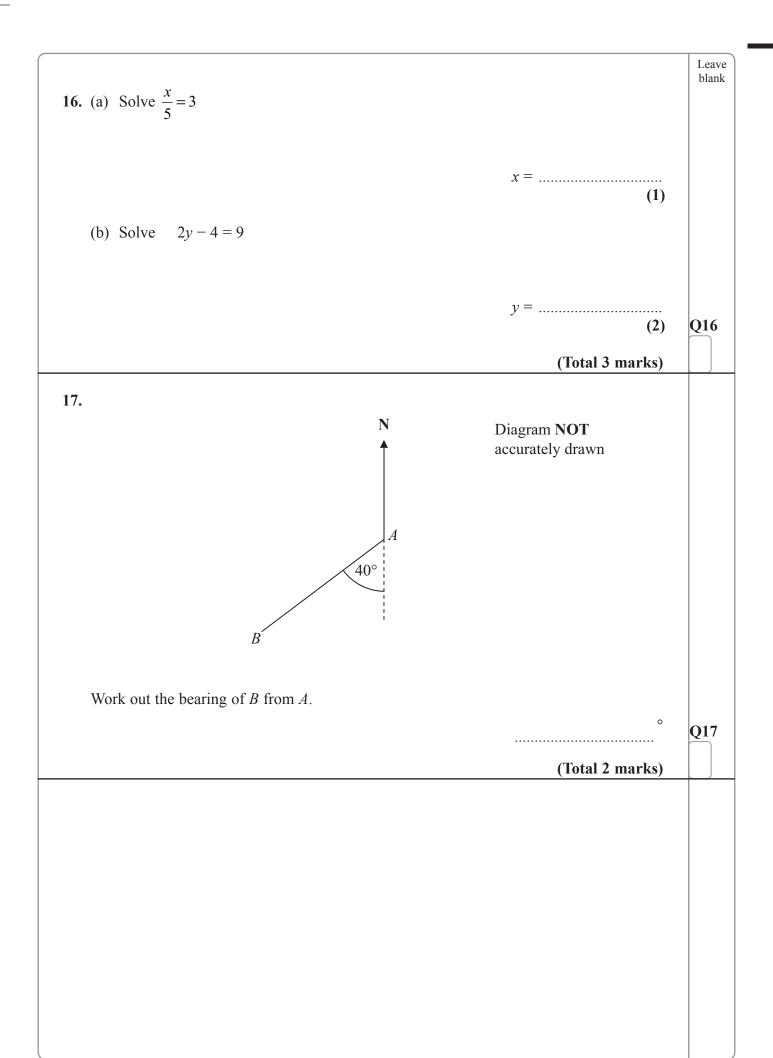
(c) Work out $\frac{3}{4}$ of 64

(2) Q12

(Total 5 marks)

12	Tuling and 95m as	a a b				Leave blank
13.	Tulips cost 85p ea Sara has £20 to sp She buys the grea	pend on tulips.	mber of tulips.			
	(a) Work out the	number of tulip	os Sara buys.			
					tulips	
	Sara pays with a	f20 note			(2)	,
			Sara should got			
	(b) Work out how	w much change	Sara snould get.			
					17	
					(Total 4 marks)	
14.	The two-way tabl	le gives informa	tion about the subjec	ets studied by 50 s	students.	
		Law	Engineering	Medicine	Total	
	Male	6	Engineering	Wiedienie	10001	
	IVIAIL					
	Female		6		25	
		11	6	18	25	
	Female Total	11		18		
	Female	11		18)
	Female Total	11 etwo-way table.		18	50)
	Female Total (a) Complete the One of these stud	11 etwo-way table.			50)
	Female Total (a) Complete the One of these stud	11 etwo-way table.	t random.		50)
	Female Total (a) Complete the One of these stud	11 etwo-way table.	t random.		50	
	Female Total (a) Complete the One of these stud	11 etwo-way table.	t random.		50 (3)	Q14

15. This conversion graph can be used to change between litres and gallons.	Leave blank
↑	
50	
40	
Litres 30	
20	
10	
0 1 2 3 4 5 6 7 8 9 10 11 12	
Gallons	
(a) Use the graph to change 50 litres to gallons.	
gallons (1)	
(b) Use the graph to change 6 gallons to litres.	
litres (1)	
1 litre of petrol costs £1.15	
(c) Work out the cost of 50 litres of petrol.	
£(2)	
(d) Work out an estimate for the cost of 1 gallon of petrol.	
£(2)	Q15
(Total 6 marks)	



18. Here is part of a train timetable for six trains from Birmingham to London.

Train	A	В	С	D	E	F
Birmingham	06 35	07 00	07 15	07 30	07 45	08 00
London	08 09	08 39	08 48	09 04	09 59	09 39

((a)	Which train	takes more	than 2 ho	urs to go	from Birr	mingham to	London?
۱	(a)	Willell Hall	takes inoic	man 2 no	uis to go	HOIII DIII	mingham to	London:

(1)

(b) Work out the number of minutes taken by train D to go from Birmingham to London.

..... minutes

(2)

Leave blank

Paula has to go to a meeting in London. She will catch one of the six trains from Birmingham. She needs to arrive in London before 09 00

(c) Write down the latest train that she can catch.

(1) Q18

(Total 4 marks)

19. (a) Use your calculator to work out $\frac{2}{1.5+2.45}$

Write down all the figures on your calculator display. You must give your answer as a decimal.

(2)

(b) Write your answer to part (a) correct to 2 decimal places.

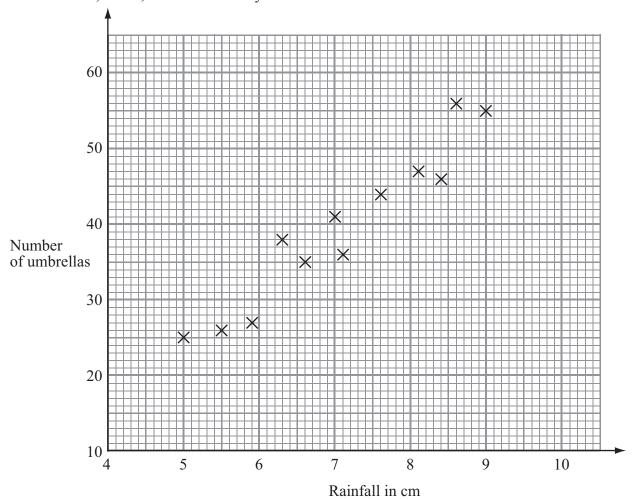
(1) Q19

(Total 3 marks)

Leave blank

20. Mr Wither sells umbrellas.

The scatter graph shows some information about the number of umbrellas he sold and the rainfall, in cm, each month last year.



In January of this year, the rainfall was 6.1 cm. During January, Mr Wither sold 32 umbrellas.

(a) Show this information on the scatter graph.

(1)

(1)

(b) What type of correlation does this scatter graph show?

- In February of this year, Mr Wither sold 40 umbrellas.
- (c) Estimate the rainfall for February.

Q20 (2)

(Total 4 marks)

	Y A	Leave blank
21.	In August 2008, Eddie hired a car in Italy.	
	The cost of hiring the car was £620 The exchange rate was £1 = $\\$ 1.25	
	(a) Work out the cost of hiring the car in euros (\in) .	
	€(2)	
	Eddie bought some perfume in Italy.	
	The cost of the perfume in Italy was €50 The cost of the same perfume in London was £42	
	The exchange rate was still £1 =	
	(b) Work out the difference between the cost of the perfume in Italy and the cost of the perfume in London. Give your answer in pounds (£).	
	£(3)	Q21
	(Total 5 marks)	

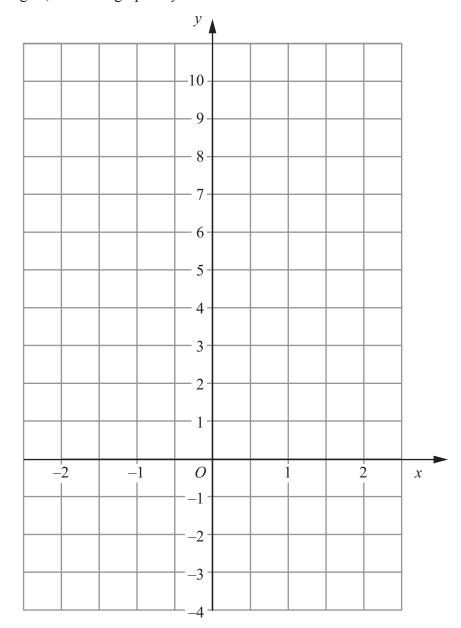
22. (a) Complete the table of values for y = 3x + 4

x	-2	-1	0	1	2
у		1			10

(2)

Leave blank

(b) On the grid, draw the graph of y = 3x + 4



(2) Q22

(Total 4 marks)

Leave blank **23.** (a) $Diagram \ \textbf{NOT}$ accurately drawn 130° (i) Work out the size of the angle marked x. (ii) Give a reason for your answer. **(3)** (b) Diagram NOT accurately drawn ANB is parallel to CMD. LNM is a straight line. Angle $LMD = 68^{\circ}$ (i) Work out the size of the angle marked y. (ii) Give reasons for your answer.

Q23

(Total 6 marks)

24. The equation	Leave blank	
$x^3 + 10x = 25$		
has a solution between 1 and 2		
Use a trial and improvement method to find this solution. Give your answer correct to one decimal place. You must show all your working.		
$x = \dots$	Q24	
(Total 4 marks)		

Leave blank

25. There are some ribbons in a box.

The ribbons are green or red or yellow or white.

The table shows each of the probabilities that a ribbon chosen at random will be green or red or white.

Colour	Green	Red	Yellow	White
Probability	0.15	0.30		0.35

(a) Work out the probability that a ribbon chosen at random will be yellow.

(2)

There are 500 ribbons in the box.

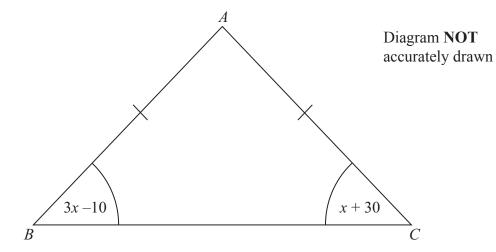
(b) Work out the number of red ribbons.

(2)

Q25

(Total 4 marks)

26.



ABC is an isosceles triangle. AB = AC

(a) Explain why 3x - 10 = x + 30

(1)

(b) Solve 3x - 10 = x + 30

> $x = \dots$ **(2)**

Q26

blank

(Total 3 marks)

25		Leave blank
27.	Diagram NOT accurately drawn	
6	cm	
B 14 cm C		
ABC is a right-angled triangle. AC = 6 cm. BC = 14 cm.		
(a) Work out the area of triangle ABC.		
	cm ² (2)	
(b) Calculate the length of <i>AB</i> . Give your answer correct to 2 decimal places.		
	cm (3)	Q27
	(Total 5 marks)	
	OTAL FOR PAPER: 100 MARKS	
END		

