Centre No.					Pape	r Refer	ence			Surname	Initial(s)
Candidate No.			1	3	8	0	/	1	F	Signature	

Paper Reference(s)

1380/1F

Edexcel GCSE

Mathematics (Linear) – 1380

Paper 1 (Non-Calculator)

Foundation Tier

Monday 18 May 2009 – Afternoon

Time: 1 hour 30 minutes



Team L	eader's u	ise only

Examiner's use only

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. 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 30 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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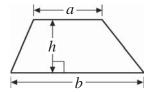


GCSE Mathematics (Linear) 1380

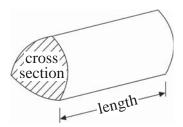
Formulae: Foundation Tier

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



Answer ALL THIRTY questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator.

Monday					
Tuesday				Key:	
Wednesday	00			represents 2 hours	
Thursday					
Friday					
(a) Work out th	e number of hou	rs of sunshine on	Monday.		
		rs of sunshine on			(1)

(Total 4 marks)

(2)

Q1



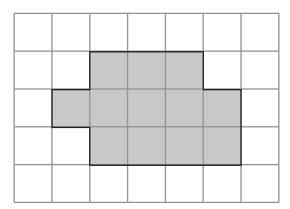
There were 5 hours of sunshine on Friday.

(c) Use this information to complete the pictogram.

Leave blank 2. Diagram NOT accurately drawn 30 cm В \mathbf{C} 9 cm → Here is a picture of a stick. The stick is in three parts, A, B and C. The total length of the stick is 30 cm. The length of part A is 16cm. The length of part B is 9cm. Work out the length of part C. $\mathbf{Q2}$ (Total 2 marks) (a) Work out 50% of £60 £ **(1)** (b) Work out 25% of 20 metres. metres **(1)** Q3(Total 2 marks)

4.	Here is a point P marked with a cross (\times).		Lea blar	
	$P \times$			
	(a) Draw a line 7 cm long. Start from the point <i>P</i> .			
	(1)			
	(b) On your line, mark with a cross (x) the point which is 3 cm from P.Label this point Q.			
	(1)		Q4	
	(Total 2 marks)			
5.	Here are the first 4 terms in a number sequence.			
	124 122 120 118			
	(a) Write down the next term in this number sequence.			
	(1)			
	(b) Write down the 7th term in this number sequence.			
	(1)			
	9 cannot be a term in this number sequence.			
	(c) Explain why.			
	(1)		0.5	
	(1)		Q5	
	(Total 3 marks)	\dashv		





The diagram shows a shaded shape drawn on a centimetre grid.

(a) Work out the perimeter of the shaded shape.

..... cm **(1)**

(b) Work out the area of the shaded shape. State the units of your answer.

(2)

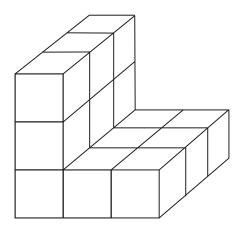


Diagram NOT accurately drawn



represents $1 \, \text{cm}^3$

Here is a solid prism made of centimetre cubes.

(c) Find the volume of the solid prism.

 $\ldots cm^3$

Q6

7. The table shows part of a bus timetable from Shotton to Alton.

Shotton	0730	0800	0900	1000	11 00
Crook	0745	0815	0915	1015	11 15
Prudhoe	0758	0828	0928	1028	11 28
Hexham	0815	0845	0945	1045	1145
Alton	0830	0900	1000	11 00	1200

A bus leaves Shotton at 0730

(a) What time should it arrive at Alto	(a)	What time	should	it	arrive	at Alto	'n'
--	-----	-----------	--------	----	--------	---------	-----

(1)

Another bus leaves Prudhoe at 0828

(b) How many minutes should it take to get to Hexham?

..... minutes (1)

Serena lives in Crook.

She has to be in Hexham by quarter past 11

(c) What is the time of the latest bus she can catch from Crook to arrive in Hexham by quarter past 11?

(1)

(Total 3 marks)

8. (a) Write the number 4117 in words.

(1)

(b) Write the number 4117 to the nearest hundred.

.....(1)

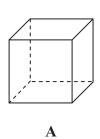
(Total 2 marks)

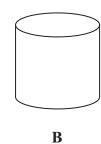


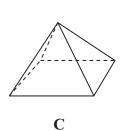
Q8

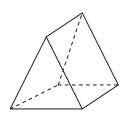
Q7

Diagram **NOT** accurately drawn







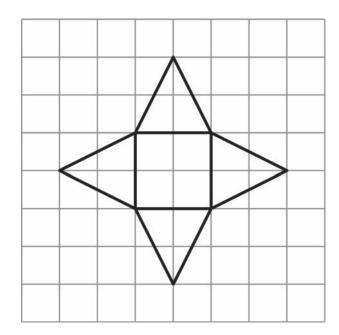


D

The diagram shows four 3-D solid shapes.

(a) Write down the number of vertices of shape A.

.....(1)



Here is the net of one of the shapes, A, B, C or D.

(b) Which shape?

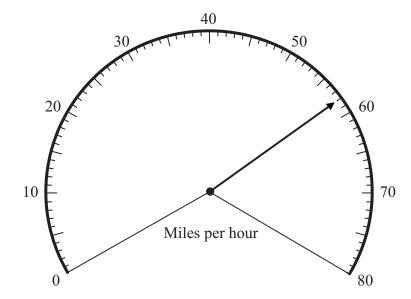
8

(1)

Q9

Leave blank

10.



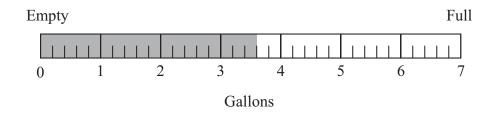
The diagram shows the speed of a car.

(a) Write down the speed of the car.

..... miles per hour

(1)

The scale below shows the amount of fuel in a tank.



(b) Write down the amount of fuel in the tank.

..... gallons **(1)**

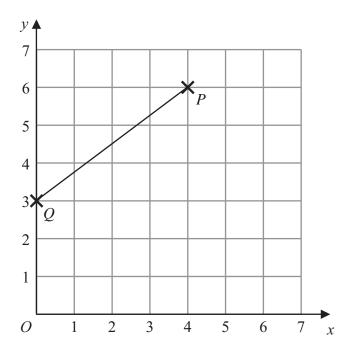
When the tank is full, there are 7 gallons of fuel in the tank.

(c) Work out how much more fuel has to be added to the tank to fill it completely.

(1)

(Total 3 marks)

Q10



(a) Write down the coordinates of the point P.

(,)
		(1)

(b) Write down the coordinates of the point Q.



M is the midpoint of the line from Q to P.

(c) Find the coordinates of M.

(,)
		(2)

Q11

blank

Leave blank

12.

City	Temperature
Cardiff	−2 °C
Edinburgh	−4 °C
Leeds	2 °C
London	−1 °C
Plymouth	5 °C

The table gives information about the temperatures at midnight in 5 cities.

(a) Write down the lowest temperature

•						 				•	•	•	•	•	•				 	•	()	C	٩
																					(1)

(b) Work out the difference in temperature between Cardiff and Plymouth.

		•					•			•							()	\mathcal{C}	1
																	(1	.))

(c) Work out the temperature which is halfway between -1°C and 5°C.

 °C
(1)

Q12

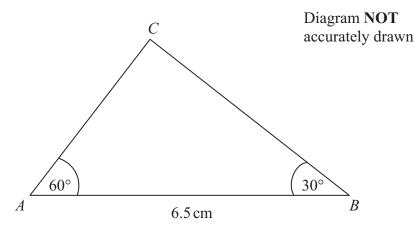


3.							Leave
	Impossible	Unlikely	Even	Likely	Certain		
Wh	ich word from th	ne box best descri	bes the likeli	hood of each	of these events?		
(a)	You throw an or	rdinary dice and g	get an eight.				
						(1)	
(b)	You throw a coi	in and get a Head	S.				
						(1)	
(c)	December 6th 2	2008 is the day af	ter December	5th 2008			
						(1)	Q13
					(Total 3 r		
4. (a)	Work out 4	× 5 – 8					
(b)	Work out 18	$3+2\times3$				(1)	
						(1)	
(c)	Work out (4	+ 3) × 7					
(c)	Work out (4	+ 3) × 7					

15. (a)	Simplify	8x - 4x		Leave blank
			(1)	
(b)	Simplify	$y \times y \times y$		
			(1)	
(c)	Simplify	4x + 3y - 2x + 5y		
			(2)	Q15
			(Total 4 marks)	
			(Total 4 marks)	
			(Total 4 marks)	
			(Total 4 marks)	
			(Total 4 marks)	
			(Total 4 marks)	

Leave blank

16.



(a) Make an accurate drawing of triangle ABC. The side AB has already been drawn for you.

(2)

(b) Measure the size of the angle at *C* in your triangle.

(1)

Q16

17. Work out 36×24	Leave blank
(Total 3 marks)	Q17
18. A Diagram NOT accurately drawn	
88° 96°	
B C	
James says, "The lines AB and DC are parallel." Ben says, "The lines AB and DC are not parallel."	
Who is right, James or Ben?	
Give a reason for your answer.	
	Q18
(Total 2 marks)	

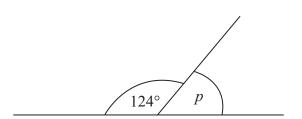


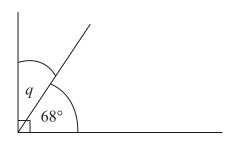
Diagram **NOT** accurately drawn

(a) (i) Work out the size of the angle marked p.

(ii) Give a reason for your answer.

(2)

Diagram **NOT** accurately drawn



(b) Work out the size of the angle marked q.

.....

(1) Q19

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

Q20

(2)

21. The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15		14	54
Girl		8	16	
Total	37			100

(a)	Complete	the	two-way	table.

(3)

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.

•	•																	•	•
																([]	1)

One of the girls is picked at random.

(c) Work out the probability that this girl did **not** walk to school that day.

			•	•	•	•	•	•					 	•	•	•	•	•	•	•	•							
																								(1)	,	١

Q21

(Total 6 marks)

22. Compasses cost c pence each.

Rulers cost *r* pence each.

Write down an expression for the total cost, in pence, of 2 compasses and 4 rulers.

pence

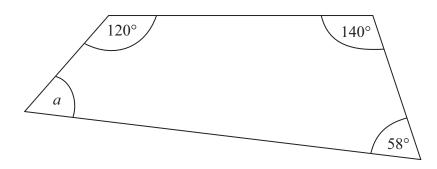




_	1
	4
_	u

Diagram **NOT** accurately drawn

Leave blank



Work out the size of the angle a.

Q23

(Total 2 marks)

24. (a) Solve
$$4x + 1 = 9$$

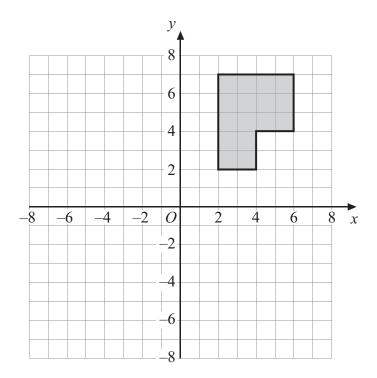
$$x =$$
 (2)

(b) Solve
$$2y - 1 = 12$$

$$y =$$
 (2)

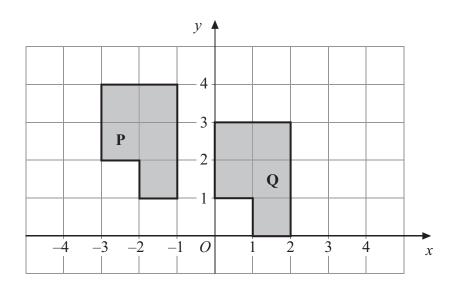
Q24

Leave blank



(a) Rotate the shaded shape 90° clockwise about the point O.

(2)

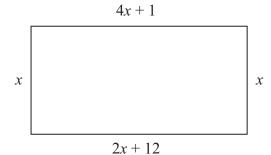


(b) Describe fully the single transformation that will map shape \mathbf{P} onto shape \mathbf{Q} .

(2)

Q25

Diagram **NOT** accurately drawn



The diagram shows a rectangle.

All the measurements are in centimetres.

(a) Explain why 4x + 1 = 2x + 12

(1)

(b) Solve 4x + 1 = 2x + 12

 $x = \dots$ (2)

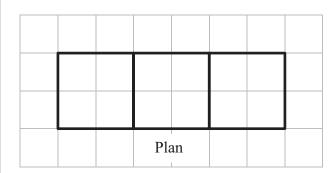
(c) Use your answer to part (b) to work out the perimeter of the rectangle.

..... cm (2)

(Total 5 marks)

Q26

27. Here are the plan and front elevation of a solid shape.



Front Elevation

(a) On the grid below, draw the side elevation of the solid shape.



(2)

(b) In the space below, draw a sketch of the solid shape.

(2)

Q27

28.	Fred is going to take a survey of the magazines read by students.	Leave blank
	He wants to design a questionnaire.	
	(a) Design a suitable question that he could use to find out what types of magazine students read.	
	(2)	
	Fred put the question below on his questionnaire.	
	'How many magazines have you read?'	
	A 5	
	A few A lot	
	(b) Design a better question.You should include some response boxes.	
	(2)	Q28
	(Total 4 marks)	



		Leave blank
29. Use the information that		
$322 \times 48 = 15456$ to find the value of		
(a) 3.22×4.8		
	(1)	
(b) 0.322×0.48		
	(1)	
(c) $15456 \div 4.8$		
		Q29
	(1)	Q29
	(Total 3 marks)	
30. $2x^2 = 72$		
(a) Find a value of x.		
	(2)	
(h) Evenues 72 as a madret of its naine featons		
(b) Express 72 as a product of its prime factors.		
		Q30
	(Z)	250
	(Total 4 marks) TOTAL FOR PAPER: 100 MARKS	
END		