Centre No.					Pape	er Refer	ence			Surname	Initial(s)
Candidate No.			5	5	2	1	/	0	1	Signature	

Paper Reference(s)

5521/01

Edexcel GCSE

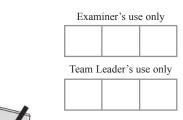
Mathematics A - 1387

Paper 1 (Non-Calculator)

Foundation Tier

Tuesday 6 November 2007 – Morning

Time: 1 hour 30 minutes



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 25 questions in this question paper. The total mark for this paper is 100.

There are 20 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.

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

©2007 Edexcel Limited.

N31074A W850/R5521/57570 6/6/6/3



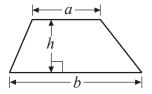


GCSE Mathematics 1387/8

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



		Answer ALL TWENTY FIVE questions.	blank
		Write your answers in the spaces provided.	
		You must write down all stages in your working.	
		You must NOT use a calculator.	
1.	(a)	Write the number 5250 in words.	
		(1)	
	(b)	Write 23 250 to the nearest thousand.	
		(1)	
	(c)	Write down the value of the 3 in the number 42 350	
	(1)	(1)	
	(d)	Write six thousand three hundred and seventy four in figures.	
		(1)	Q1
		(Total 4 marks)	
2.	(a)	Work out 500 – 107	
		(2)	
	(b)	Work out 327×4	
		(2)	Q2

			Leave
3.	(a)	Here is a triangle. What type of triangle is it?	blank
		\wedge	
		(1)	
	(b)	Here is a quadrilateral. What type of quadrilateral is it?	
		<u> </u>	
		(1)	
	(c)	On the grid below, draw a trapezium.	
		(1)	Q3
		(Total 3 marks)	

			Leave blank
4.	(a) On the grid,	draw a line that is parallel to the line L.	Uldlik
	,		
	I		
			(1)
	(b) On the grid	draw a line normandiaular to the line D	
	(b) On the grid,	draw a line perpendicular to the line P .	
	I		
			$(1) \qquad \boxed{Q4}$
			(Total 2 marks)
5.	(a) Shade $\frac{3}{4}$ or	this shape.	
	4		
			(1)
	(1) (1) 1 0 0 5	0.11: 1	, ,
	(b) Shade 0.25	f this shape.	
			(1)
			(1)
	(c) Change 0.3	nto a fraction.	
	-		
			(1)
	(d) Change 0.7	nto a percentage.	
			(1)
	(e) Work out $\frac{3}{4}$	of £36	
	4	-	
		£	Q5
			(2)

6.	This shaded shape is drawn on a grid of centimetre squares.	Leave
	(a) Find the perimeter of the shaded shape.	
	cm (1)	
	(b) Find the area of the shaded shape.	
	cm ² (1)	
	This solid prism is made from centimetre cubes.	
	(c) Find the volume of the prism. Diagram NOT accurately drawn	
	cm ³ (2)	Q6
	(Total 4 marks)	

(a) Writ	e down	the n	ext tw	o ter	ms of	this n	ıumbe	r sequ	ence					
											•••••	•••••	,	(2)
(b) Wor	k out th	e 10tl	ı term	of th	nis nu	mber	seque	nce.						
														(2)
												(Tota	14 m	arks)
												(10ta	11 4 111	ai KS)
José is in Here is h			e cha	rt duı	ring o	ne day	/.							
	40.5													
	40.0													
	39.5													
emperature n °C	37.0													
	38.5													
	38.0								-		-			
	37.5													
	37.0													
	36.5													
	36.0 -		7		+ + - -	1.0	11	10	1	+	+	 		
		6	7	8	9	10	11	12	1	2	3	4	5	6
					am		,	Гime			pı	n		
(a) At w	that tim	e was	· Iosé'	s tem	nerat	ure 30	0 °C	9						
(a) 11t W	riiat tiiii	.c was	3030	5 (611	трегас		.o C	-						
														(1)

				_
9. Here is a diagram of a 3-D) nrism			Leave blank
7. Tiere is a diagram of a 5 E	prisiii.			
Write down the number of	(i) faces	,		
	(ii) edges	5,		
	(iii) vertic	ces.		Q9
			(Total 3 marks)	
			,	
10. Here is part of a bus timet	able.			
D G	07.20	00.00		
Bus Station 07 00	07 30	08 00		
Castle Street 07 10	07 40	08 15		
High Street 07 25	07 55	08 25		
Station Road 07 37	08 07	08 37		
Church Street 07 50	08 20	08 50		
Wharf Inn 07 55	08 25	08 55		
A bus leaves the Bus Station	on at 07 00			
(a) At what time should to	he 07 00 bus a	rrive at Station Road?		
			(1)	
			(1)	
Jill arrives at High Street a She wants to catch a bus to				
(b) How long should she	have to wait fo	or the next bus?		
			minutes (1)	
A bus leaves Station Road	at 08 37			
(c) How long should this	bus take to trav	vel from Station Road	to Wharf Inn?	
			minutes	0.10
			(1)	Q10
			(Total 3 marks)	

					Leave blank
11. I	Here is a diagram drawn on a square gr	id.			
(a)	Mark, with arrows (>>), a pair of para	llel lines			
(u)	ividik, with difews (* *), a pair of para	nor inies.		(1)	
(b)	Mark, with the letter A, an acute angle	·.		(1)	
(c)	Mark, with the letter O, an obtuse ang	le		(1)	
(0)	ividik, with the fetter o, an obtase ang			(1)	Q11
			(Tota	al 3 marks)	
12. (a)	Complete this table. Write a sensible unit for each measure Three have been done for you.	ment.			
		Metric	Imperial		
	Distance from London to Cardiff	Metric km	Imperial		
	Distance from London to Cardiff Weight of a bag of potatoes		Imperial		
	Weight of a bag of potatoes		pounds	(3)	
(b)	Weight of a bag of potatoes Volume of fuel in a car's fuel tank Here is a picture of a woman opening	km	pounds	(3)	
(b)	Weight of a bag of potatoes Volume of fuel in a car's fuel tank	km	pounds	(3)	
(b)	Weight of a bag of potatoes Volume of fuel in a car's fuel tank Here is a picture of a woman opening	km	pounds	(3)	
(b)	Weight of a bag of potatoes Volume of fuel in a car's fuel tank Here is a picture of a woman opening	km	pounds gallons n high.	(3) m (2)	Q12

42 ()			()		Leave blank
13. (a)	the probability that	scale below, mark with a cros it will rain on at least one day	s (×) y in London in 2008.		
		1			
	0	$\frac{1}{2}$	1		
		2		(1)	
(b)		scale below, mark with a cros you will get a 10 when you r		dice.	
	-	+			
	0	$\frac{1}{2}$	1		
		2		(1)	
(c)		scale below, mark with a cros you will get a head when you			
		+			
	0	$\frac{1}{2}$	1		
	U	2		(1)	012
	U	2	(T)	(1)	Q13
	0	2	(То	(1)	Q13
		2	(То		Q13
		2	(To		Q13
	0	2	(To		Q13
		2	(To		Q13
	U	2	(To		Q13
		2	<u>(To</u>		Q13
		2	(То		Q13
		2	(To		Q13
		2	(To		Q13
		2	(To		Q13
		2	(То		Q13
		2	(To		Q13

He He His	im thinks of a number. multiplies the number by 2 then adds 3 answer is 27 What number did Kalim think of?	Leave blank
	(2)	
to f	ma uses the formula $P = 2a + b$ and the perimeter P of this triangle. Find the value of P when $a = 5 \text{ and } b = 3$	
	$P = \dots$	
	(2)	Q14
	(Total 4 marks)	
15. (a)	Work out the value of (i) 4^2	
	(ii) √64	
	(iii) 3×2^3	
	(3)	
(b)	Work out $(i) -2 + 5$	
	(ii) -2 - 3	
	(2)	015

(Total 5 marks)

16. (a) Work out £3.75 × 24	Leave
10. (a) Work out 23.73 2.	
£(3)
(b) Divide £135 by 20	
£	
(Total 6 marks))

Leave blank

17. The two-way table shows some information about the colours of Ford cars and of Toyota cars in a garage.

	white	blue	red	Total
Ford	5			21
Toyota		7		
Total	9	16		40

(a)	Write down the total	number of white cars.	

(1)

(b) Complete the two-way table.

(3)

One of these 40 cars is to be picked at random.

(c) Work out the probability that this car will be blue.

		(1)	Q17

(Total 5 marks)

Leave	
blank	

10	Joe rolls	_	6 gidad	diaa	and	anina		A sidad	aninnar	
10.	Joe Tolls	а	o-sided	aice	anu	Spins	a '	4-Sided	spinner.	

The dice is labelled 1, 2, 3, 4, 5, 6

The spinner is labelled 1, 2, 3, 4





Joe adds the score on the dice and the score on the spinner to get the total score.

He records the possible total scores in a table.

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3					
3	4					
4	5					

(a)	Complete	the	table	of po	ssible	total	scores.
-----	----------	-----	-------	-------	--------	-------	---------

(2)

(b) Write down all the ways in which Joe can get a total score of 5 One of them has been done for you.

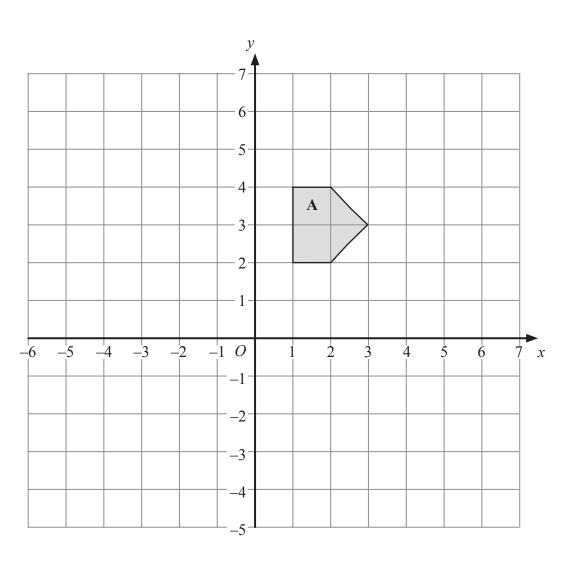
1, 4),

(c) Write down all the ways Joe can get a total score of 8 or more.

(2) Q18

(Total 6 marks)

19.



(a) Reflect Shape **A** in the *y* axis. Label your new shape **B**.

(2)

(b) Translate Shape **A** by 3 squares right and 2 squares down. Label your new shape **C**.

(2) Q19

Leave blank

(Total 4 marks)

f		
Cost = £90 + 50p per mile		
Bill hires a car and drives 80 miles.		
(a) Work out the cost.		
	£	
The cost of hiring a car and driving m miles is C pounds.	(2)	
(b) Complete the formula for C in terms of m .		
	$C = \dots $ (2)	
	(Total 4 marks)	

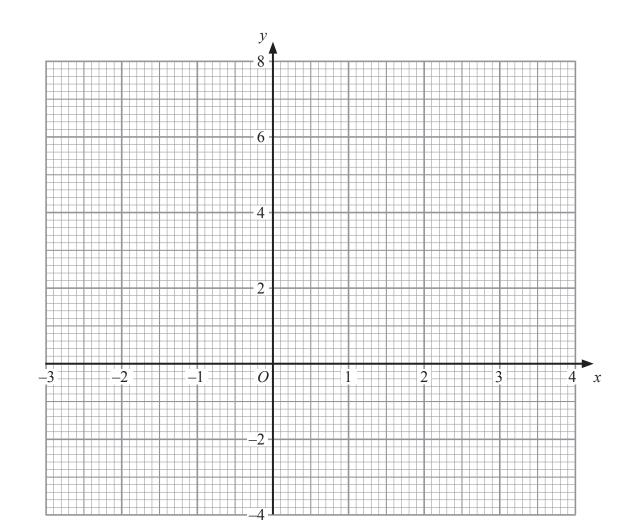
21.	Leave
Diagram NOT accurately drawn $ \begin{array}{cccccccccccccccccccccccccccccccccc$	
BA is parallel to EGD . BGC is parallel to EF . Angle $ABC = 63^{\circ}$.	
(a) (i) Find the size of angle x.	
(ii) Give a reason for your answer.	
(2)	
(b) Work out the size of angle y.	
0	
(1)	Q21
(Total 3 marks)	

22. (a) Complete this table of values for y = 2x - 1

x	-1	0	1	2	3	4
у		-1		3	5	

(2)

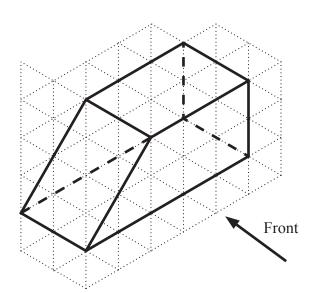
Leave blank



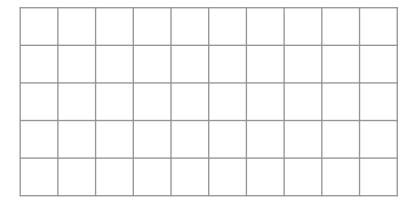
(b) On the grid, draw the graph of y = 2x - 1

(2) **Q22**

(Total 4 marks)

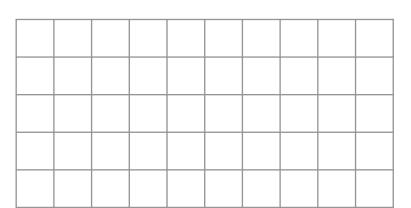


(a) On the centimetre grid, draw the front elevation of the prism from the direction marked by the arrow.



(2)

(b) On the centimetre grid draw a plan of the prism.



022

(Total 4 marks)

19

	blank
24. (a) Factorise $x^2 - 5x$	
(2)	
(2)	
(b) Expand $3(5x-2)$	
(1)	Q24
(Total 3 marks)	
25. A hotel has 56 guests. 35 of the guests are male.	
(a) Work out 35 out of 56 as a percentage.	
(a) Work out 33 out of 30 as a percentage.	
9%	
(2)	
40% of the 35 male guests wear glasses.	
(b) Write the number of male guests who wear glasses as a fraction of the 56 guests. Give your answer in its simplest form.	
r and r r	
(4)	Q25
(Total 6 marks)	
TOTAL FOR PAPER: 100 MARKS	
END	