Centre No.					Раре	er Refer	ence			Surname	Initial(s)
Candidate No.			5	5	3	4	/	1	5	Signature	

Paper Reference(s)

5534/15

Edexcel GCSE

Mathematics B - 1388

Paper 15 (Calculator)

Foundation Tier

Monday 11 June 2007 – Morning

Time: 1 hour

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 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 20 questions in this question paper. The total mark for this paper is 62.

There are 16 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.

This publication may be reproduced only in accordance with

Edexcel Limited copyright policy.
©2007 Edexcel Limited.
Printer's Log. No.

W850/R5534/57570 6/6/6/3/2





Examiner's use only

Team Leader's use only

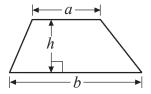
GCSE Mathematics 1387/8

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



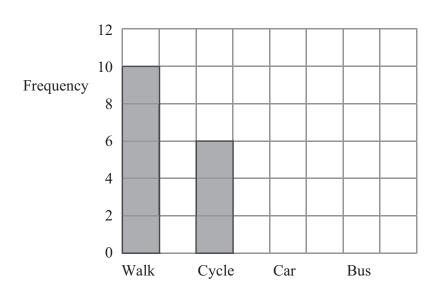
Answe	r ALL T	WENT'	Y questi	ons.			blank				
Write your answers in the spaces provided.											
You must wri	te down	all stage	es in you	ır work	ing.						
1. Here are some patterns made us	sing sticl	KS.									
	_ _	_	-		<u> </u>						
Pattern number 1 Pat	tern num	ber 2		Patte	ern numl	per 3					
(a) In the space below, complete the table.	ı	n numbe	er 4.			(1)					
Pattern number	1	2	3	4	5]					
Number of sticks	4	7	10	7		_					
(c) How many sticks are used	in Patter	n numbe	er 10?			(1)					
						(1) (Total 3 marks)	Q1				
						(20m v marks)					

M 2 5 7 7 2 R A 0 3 1 6

3

2. Sophie asked the students in her class how they travelled to school.

The bar chart shows some information about the results, for everyone in Sophie's class.



4 students travel to school by car.

7 students travel to school by bus.

(a) Complete Sophie's bar chart.

(2)

Leave blank

(b) How many students in Sophie's class cycle to school?

(1)

(c) Which method of travelling to school is used by the greatest number of students in Sophie's class?

(1)

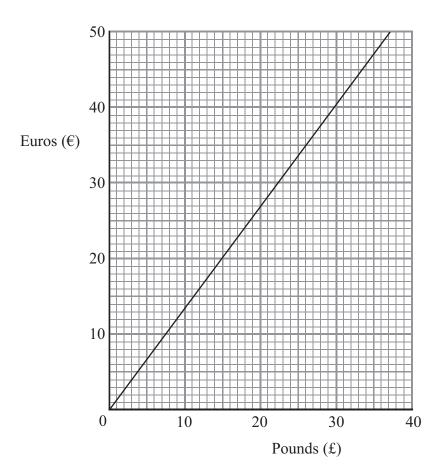
(d) Work out the total number of students Sophie asked.

Q2

(Total 5 marks)

3. The conversion graph can be used to change between pounds (\pounds) and Euros (€).





(a) Use the graph to change 30 pounds to Euros.

€(1)

(b) Use the graph to change 16 Euros to pounds.

£(1)

Q3

(Total 2 marks)

Leave blank

4. Here is part of a railway timetable.

Manchester	05 15	06 06	06 45	07 05	07 15	07 45
Stockport	05 26	06 16	06 55	07 15	07 25	07 55
Macclesfield	05 39	06 29	07 08		07 38	08 08
Stoke-on-Trent	05 54	06 45	07 24		07 54	08 24
Stafford	06 12		07 41		08 11	
London Euston	08 07	08 26	09 06	09 11	09 50	10 08

A train leaves Manchester at 06 45

(a)	(i)	At what time should this train get to London Euston?

(ii) How long should it take to travel between Manchester and Stoke-on-Trent?

 		 			 minutes
					(2)

Mark has to go to a meeting in Stafford. He will catch the train in Stockport. He needs to arrive in Stafford **before** 08 00

(b) Write down the time of the latest train he can catch from Stockport.



6

		Work out how long the London Euston. Give your answer in how		e 07 05 train fr	om Manchest	ter to get to	Leave blank
					hours	minutes (1)	
		06 45 train from Manchester.	hester takes more to	ime to get to Lo	ndon Euston tl	nan the 07 05	
	(d)	Work out how many m	ore minutes the 06	45 train takes.			
						minutes (2)	Q4
					(To	tal 6 marks)	
5.		8					
			9	12	10		
		30		3			
			5		20		
	Usiı	ng only the numbers in	the rectangle, write	down			
	(i)	an even number					
	(ii)	a multiple of 4					
	(iii)	a factor of 15					
							Q5
					(To	tal 3 marks)	

6. The table shows the highest and lowest temperatures one day in London and Moscow.

Leave blank

	Highest	Lowest
London	8°C	−6°C
Moscow	−3°C	-8°C

(a) Work out the difference between the **lowest** temperature in London and the **lowest** temperature in Moscow.

.....°C (1)

(b) Work out the difference between the **highest** and **lowest** temperature in London.

°C (1)

Q6

(Total 2 marks)

7.

Waxworks

Adult ticket: £8.50 Child ticket: £4.50

Mr and Mrs Jones take their three children to the Waxworks. Mrs Jones pays for 2 adult tickets and 3 child tickets. She pays with a £50 note.

How much change should she receive from £50?

£

Q7

(Total 3 marks)

8.

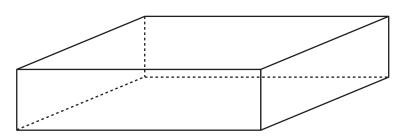


This shape is a regular polygon.

Write down the special name for this type of regular polygon.

(Total 1 mark)

9. On the diagram, draw in **one** plane of symmetry for the cuboid.



Q9

Leave blank

Q8

(Total 2 marks)

10. The two-way table shows some information about students in Years 7, 8 and 9.

	Year 7	Year 8	Year 9	Total
Can swim		61	74	
Cannot swim	33			60
Total			84	250

Complete the two-way table.

Q10

(Total 3 marks)

44 11			Leave blank
11. Here is a sketch	n of a triangle.		
		Diagram NOT accurately drawn	
1	1 m 14 m	y	
_			
	18 m		
The lengths of	the sides of the triangle are 18 m, 14 m and	11 m.	
	cm to 2 m to make an accurate scale drawing been drawn to scale below.	ng of the triangle.	
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
			Q11
	18 m		
		(Total 2 marks)	

	bla	ank
12. (a) Use your calculator to work out	$\frac{4.7}{9.4-3.5}$	
Write down all the figures on your ca	alculator display.	
	(2)	
(b) Write down your answer to (a) correct		
		2
	(1) Q1 (Total 3 marks)	2
		,

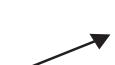
		Leave blank
13. Jamie goes on holiday to Florida. The exchange rate is $£1 = 1.70$ dollars.		
He changes £900 into dollars.		
How many dollars should he get?		
	dollars	Q13
	(Total 2 marks)	
14. Anthony and Ben share £420 in the ratio 5 : 1		
How much money does Ben get?		
	£	Q14
	(Total 2 marks)	
	(Iotai 2 mai ks)	

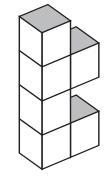
blank 15. Tom the plumber charges £35 for each hour he works at a job, plus £50 The amount Tom charges, in pounds, can be worked out using this rule. Multiply the number of hours he works by 35 Add 50 to your answer Tom works for 3 hours at a job. (a) Work out how much Tom charged. £ **(2)** At his next job Tom charged the customer £260 (b) How many hours did Tom work? hours **(3)** Tom works h hours at a job. He charges *P* pounds. (c) Write down a formula for P in terms of h. Q15

13

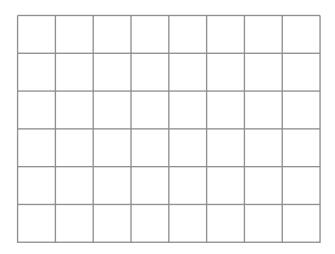
Leave

(Total 8 marks)



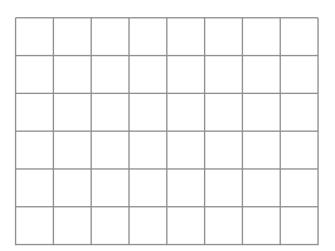


(a) On the grid below, draw the side elevation of the solid object from the direction of the arrow.



(2)

(b) On the grid below, draw the plan of the solid object.



Q16

(2)

(Total 4 marks)

17. The diagram shows a solid triangular prism.			Leave blank
	Diagram NOT accurately drawn		
Write down			
(i) the number of faces			
(ii) the number of edges			
(iii) the number of vertices			Q17
		(Total 3 marks)	
18. A concert ticket costs £45 plus a booking charge	e of 15%.		
Work out the total cost of a concert ticket.			
	£		Q18
	<i>⊸</i>	(Total 3 marks)	
		,	

Leave blank 19. Great Britain Spain The motorway speed limit in Great Britain is 70 miles per hour. The motorway speed limit in Spain is 120 kilometres per hour. Which of these speed limits is the lowest speed? You must show working to explain your answer. Q19 (Total 3 marks) **20.** The diameter of a wheel on Harry's bicycle is 0.65 m. Diagram NOT Calculate the circumference of the wheel. accurately drawn Give your answer correct to 2 decimal places. 0.65 m **Q20** (Total 2 marks) **TOTAL FOR PAPER: 62 MARKS END**