Centre No.					Pape	r 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

Wednesday 15 June 2005 - 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. orning

Items included with question papers

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

There are 17 questions in this question paper. The total mark for this paper is 62.

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). 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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Examiner's use only

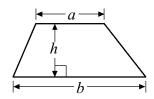
Team Leader's use only

GCSE Mathematics 1387/8

Formulae: Foundation Tier

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

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



Leave blank

Answer ALL SEVENTEEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. Daniel carried out a survey of his friends' favourite flavour of crisps.

Here are his results.

Plain	Chicken	Bovril	Salt & Vinegar	Plain
Salt & Vinegar	Plain	Chicken	Plain	Bovril
Plain	Chicken	Bovril	Salt & Vinegar	Bovril
Bovril	Plain	Plain	Salt & Vinegar	Plain

(a) Complete the table to show Daniel's results.

Flavour of crisps	Tally	Frequency
Plain		
Chicken		
Bovril		
Salt & Vinegar		

(3)

(b) Write down the number of Daniel's friends whose favourite flavour was Salt & Vinegar.

(1)

(c) Which was the favourite flavour of most of Daniel's friends?

(1)

Q1

(Total 5 marks)

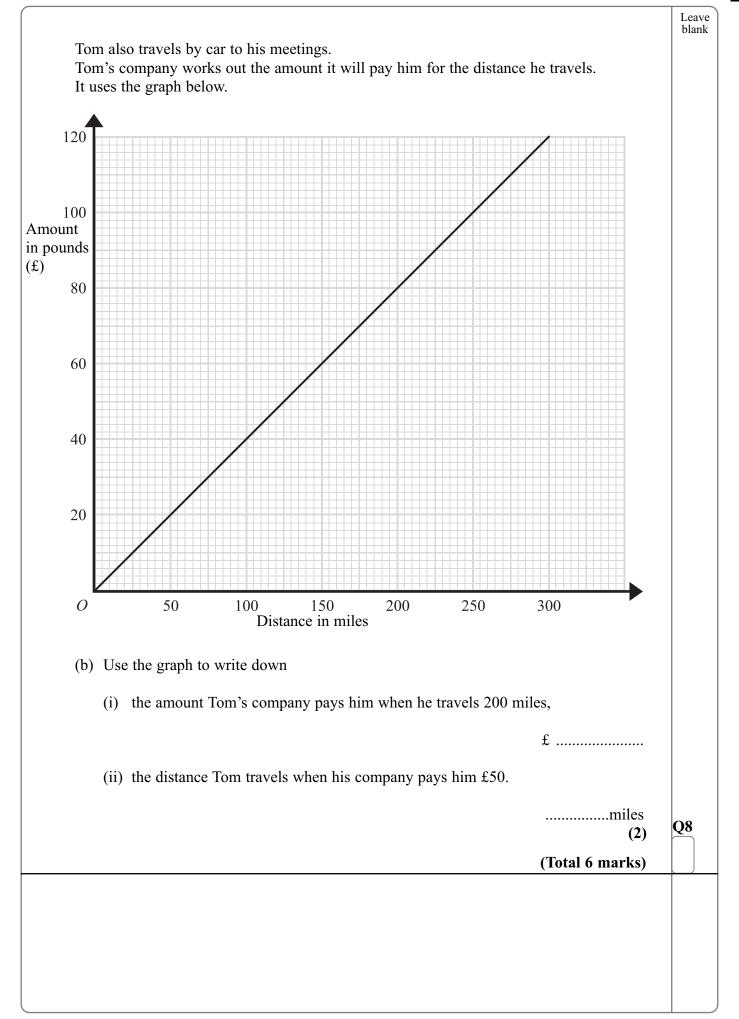


3

The shaded shape has two lines of symmetry. Draw the two lines of symmetry on the shaded shape. (Total 2 marks) (i) (ii) (ii) (Total 2 marks)	Q2
Draw the two lines of symmetry on the shaded shape. (Total 2 marks) 3. Write down the mathematical name of each of these two 3-D shapes. (i) (ii) (iii) (Total 2 marks)	Q2
Draw the two lines of symmetry on the shaded shape. (Total 2 marks) 3. Write down the mathematical name of each of these two 3-D shapes. (i) (ii) (iii) (Total 2 marks)	Q2
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(i) (ii) (Total 2 marks) (i) (ii) (iii) (Total 2 marks)	
(i) (ii) (ii) (Total 2 marks)	
(i)	
(Total 2 marks)	
	Q3
500 600 700	
(a) Write down the number marked with an arrow.	
(1)	
6 7 8	
(b) Find the number 6.7 on the number line.	
Mark it with an arrow (\uparrow) .	
(1) (Total 2 marks)	04
	Q4

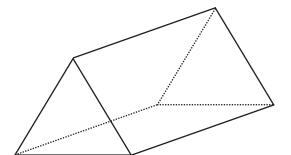
		Lea bla
The diagram shows two sides of a rhombus drawn on a grid	of centimetre squares.	
(ii) What true of anala have year many 10	o	
(ii) What type of angle have you measured?		
	(2)	
(b) Complete accurately the drawing of the rhombus.		
(b) Complete decarately the trawing of the moments.	(1)	Q5
	(Total 3 marks)	
Chloe made a list of her homework marks.		
4 5 5 5 4 3 2 1 4 5		
(a) Write down the mode of her homework marks.		
	(1)	
(b) Week out has made have every less and		
(b) Work out her mean homework mark.		
	(2)	Q6

7	· ((a) Simplify	d+d+d		Leave blank
				(1)	
		(b) Simplify	2c + 4c + c		
		() G 1	. 7 2	(1)	
		(c) Solve	x + 7 = -3		
				<i>x</i> =	
				(1)	
	((d) Solve	5y + 3 = 15		
				$y = \dots $ (2)	Q 7
				(Total 5 marks)	
8			y car to her meetings. By pays her 32p for each mile she travels.		
			writes down the distance readings from her car.		
		Start of the day:	2430 miles		
		End of the day:	2658 miles		
	((a) Work out ho	w much the company pays Alison for her day's travel.		
					1
				£	



9.

Leave blank



The diagram shows a triangular prism.

The cross-section of the prism is an equilateral triangle.

(a) On the diagram, draw in **one** plane of symmetry for the triangular prism.

(2)

(b) In the space below, draw a sketch of a net for the triangular prism.

(2)

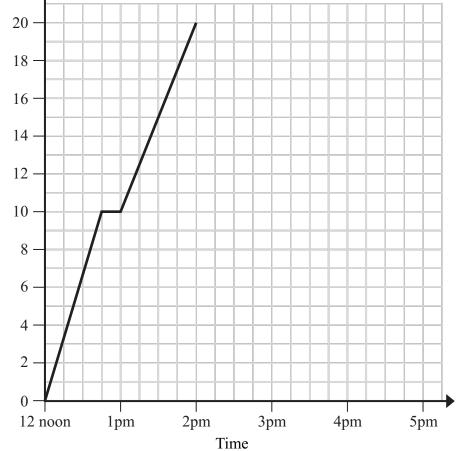
		Leave blank
(c)	In the space below, use ruler and compasses to construct an equilateral triangle with sides	Dialik
, ,	of length 6 centimetres.	
	You must show all construction lines. One side of the triangle has already been drawn for you	
	One side of the triangle has already been drawn for you	
		Q9
	(2)	
	(Total 6 marks)	
10.	Andrew, Brenda and Callum each collect football stickers.	
	Andrew has x stickers.	
	Brenda has three times as many stickers as Andrew.	
	(a) Write down an expression for the number of stickers that Brenda has.	
	(a) Write de Wil all empression for the name of strength that Brenda has	
	(1)	
	Callum has 9 stickers less than Andrew.	
	(b) Write down an expression for the number of stickers that Callum has.	
	(1)	Q10
	(Total 2 marks)	

_	Leave blank
11. (a) Work out the value of $3.8^2 - \sqrt{75}$	
Write down all the figures on your calculator display.	
(2)	
(b) Write your answer to part (a) correct to 1 significant figure.	
(1)	Q11
(Total 3 marks)	
12. The cost of a book is £2.80	
Mrs Green has £60 to spend.	
(a) Work out the greatest number of these books that Mrs Green can buy.	
(2)	
Daniel is going to buy a computer game for £40. The price of the computer game is reduced by 20%.	
(b) Work out the price Daniel pays for the computer game.	
(c) well the proof a second proof as the proof of the pro	
£(3)	Q12
(Total 5 marks)	

13. A man left home at 12 noon to go for a cycle ride. The travel graph represents part of the man's journey.

Leave blank





At 12.45pm the man stopped for a rest.

(a) For how many minutes did he rest?

..... minutes (1)

(b) Find his distance from home at 1.30pm.

..... km (1)

The man stopped for another rest at 2pm.

He rested for one hour.

Then he cycled home at a steady speed. It took him 2 hours.

(c) Complete the travel graph.

(2) Q13

(Total 4 marks)

	Leave blank
14. The width of a rectangle is x centimetres.	
The length of the rectangle is $(x + 4)$ centimetres.	
x + 4	
(a) Find an expression, in terms of x, for the perimeter of the rectangle. Give your expression in its simplest form.	
(2)	
The perimeter of the rectangle is 54 centimetres.	
(b) Work out the length of the rectangle.	
cm (3)	Q14
(Total 5 marks)	
(10tai 3 mai ks)	

15. A 10 pence coin is made from copper and nickel. The ratio of the weight of copper to the weight of nickel is 18:6	Leave blank
(a) Write the ratio 18:6 in its simplest form.	
(1	 1)
The diameter of the 10 pence coin is 2.45 cm.	
(b) Work out the circumference of the coin. Give your answer correct to 1 decimal place.	
cn	0.4 =
(Total 3 marks	2) Q15 s)
,	

		Leave blank
16. Change 7 m^2 to cm^2 .		
	cm^2	Q16
	cm ² (Total 2 marks)	
	(Total 2 marks)	
17. Alistair sells books.		
He sells each book for £7.60 plus VAT at $17\frac{1}{2}$ %.		
He sells 1650 books.		
Work out how much money Alistair receives.		
·		
	£	Q17
	(Total 4 marks)	
	TOTAL FOR PAPER: 62 MARKS	
END		

