Centre No.					Pape	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

Friday 9 November 2007 – Morning

Time: 1 hour

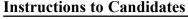
Materials required for examination

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

Tracing paper may be used.

Items included with question papers

Nil



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 18 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.

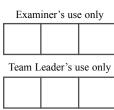
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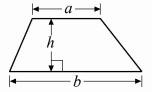


GCSE Mathematics 1387/8

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



2

Leave blank

Answer ALL EIGHTEEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. The pictogram gives information about the number of goals scored in a local football league in each of 3 weeks.

First week	
Second week	
Third week	
Fourth week	
Fifth week	

Key: represents 4 goals

(a) Find the number of goals scored in the first week.

....(1)

(b) Find the number of goals scored in the third week.

(1)

8 goals were scored in the fourth week.

- 5 goals were scored in the fifth week.
- (c) Complete the pictogram.

Q1

(2)

(Total 4 marks)

Here is a sequence of j	oatterns mad	e from grey	squares and v	white squares.	
Pattern Number 1		attern umber 2		Patter Numbe	
(a) Complete Pattern	Number 4				
Pattern Number 4 (b) Complete the table	.				(1)
Pattern Number	1	2	3	4	5
Total number of squares	3	6	9		
One of the patterns in	the sequence	has 10 grey	squares.		(1)
(c) How many white	squares does	this pattern	have?		
					(1)
Another pattern in the	sequence has	s a total of 1	8 squares.		
(d) How many grey so	quares does t	he pattern ha	ave?		
					(1)

Leave blank **3.** Joe's Cafe **Prices** Cup of tea 70p Cup of coffee 85p Can of cola 75p Roll £1.60 Sandwich £1.35 Kim buys a can of cola, a cup of coffee and a sandwich. She pays with a £5 note. Work out how much change she should get. £..... Q3 (Total 3 marks) 4. A and B are two points on a map. $_A{}^{ imes}$ $\times B$ Scale: 1 cm represents 10 km Work out the actual distance, in kilometres, between the points A and B. Q4 (Total 2 marks)

Leave blank **5.** CDiagram NOT accurately drawn 60° 6.5 cm (a) Make an accurate drawing of this triangle. The line AB has already been drawn for you. **(2)** (b) Measure the length of the line AC on your drawing. You must state the units. **(2)** The size of the angle in the triangle at C is 90° . (c) Write down the mathematical name for this type of angle. **Q5 (1)** (Total 5 marks)

Leave blank **6.** |B|-2 -1 O(a) Write down the coordinates of the point A. (b) Write down the coordinates of the point B. **(1) Q6** (Total 2 marks)

Turn over

_			Leave blank
7. I	200 Full 180 160 140 120 Litres 100 80 60 40 20 0 Empty		
The scale shows how much v	water there is in a tank.		
(a) Write down an estimate	for the number of litres of water	in the tank.	
		litres (1)	
The tank holds 200 litres who Bill adds water to the tank un			
(b) Work out the number of	litres of water he adds.		
		litres	
		(1)	
(c) (i) How many litres are	e there in 1 gallon?		
		litres	
(ii) Change 200 litres to Give your answer to			
		gallons (2)	Q7
		(Total 4 marks)	

(b) Solve $t-4=7$ $t = \frac{1}{(1)} Q$ (Total 2 marks) 9. Mr Smith kept a record of the number of absences for each student in his class for one term. Here are his results. $0 0 0 8 4 5 5 3 2 1$ (a) Write down the mode. (b) Work out the mean.	8.	(a) Solve $2y = 8$ $y = $ (1)	Leave
9. Mr Smith kept a record of the number of absences for each student in his class for one term. Here are his results. 0 0 0 8 4 5 5 3 2 1 (a) Write down the mode.		$t = \dots$	08
9. Mr Smith kept a record of the number of absences for each student in his class for one term. Here are his results. 0 0 0 8 4 5 5 3 2 1 (a) Write down the mode.			
	9.	Mr Smith kept a record of the number of absences for each student in his class for one term. Here are his results. $0 0 0 8 4 5 5 3 2 1$	
(2) Q (Total 3 marks)		(b) Work out the mean. (2)	Q9

9

Turn over

$\overline{}$		_	$\overline{}$
10	200 students are going on a school trip by bys		eave `lank
10.	800 students are going on a school trip by bus.		
	Each bus can carry 34 students.		
	Work out the smallest number of buses needed to carry all the students.		
		Q1	.0
	(Total 2 marks)		
11.	One cup costs £3		
	One plate costs £5		
	Write down an expression for the total cost, in pounds, of x cups and y plates.		
		Q1	1
	(Total 2 marks)		
12.	The cost of 1.5 kg of peaches is £0.84		
	The total cost of 3 kg of peaches and 2 kg of apples is £2.34		
	Work out the cost of 1 kg of apples.		
		Q1	2
	(Total 3 marks)		

13. Plain tiles cost 28p each. Patterned tiles cost £9.51 each.		Leave blank
Julie buys 450 plain tiles and 15 patterned tiles.		
(a) Work out the total cost of the tiles.		
(b) Express 15 as a fraction of 450 Give your answer in its simplest form.	£(3)	
Fred lays the tiles. He charges £360 plus VAT at 17.5%.	(2)	
(c) Work out the total amount that Fred charges.		
	£	012
	(3) (Total 8 marks)	Q13
	(Total o marks)	

11

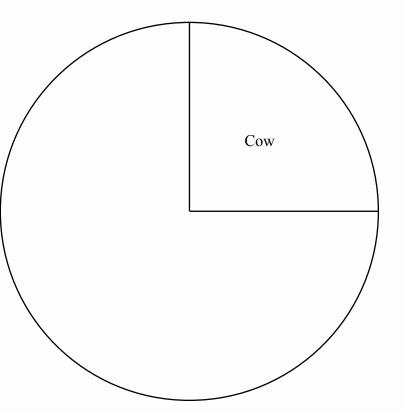
Turn over

14. Mr Irvine has a farm.

The table gives information about the number of animals on his farm.

Animal	Frequency	
Cow	15	
Hen	12	
Pig	5	
Sheep	28	

Complete the accurate pie chart to show this information.



Q14

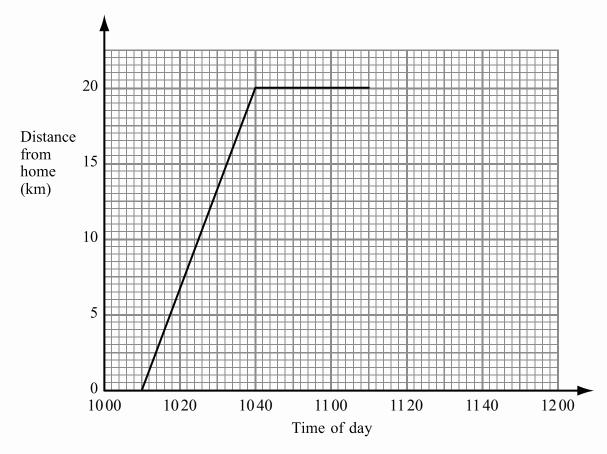
Leave blank

(Total 4 marks)

$\overline{}$		$\overline{}$
		Leave blank
15.	Anne and Bevan share £24 in the ratio 1 : 3	Dialik
	Work out how much money Bevan gets.	
	, c	
		015
	£	Q15
	(Total 2 marks)	
	(10tai 2 mai ks)	

16. Jamie travelled 20 km from his home to his friend's house. Jamie then spent some time at his friend's house before returning home. Here is the travel graph for part of Jamie's journey.

Leave blank



(a) Write down the time that Jamie left home.

(1)

(b) Write down Jamie's distance from home at 1020

..... km (1)

Jamie left his friend's house at 1110 to return home.

(c) Work out the time in minutes Jamie spent at his friend's house.

.... minutes (1)

Jamie returned home at a steady speed.	Leave blank
He arrived home at 1150	
(d) Complete the travel graph. (1)	
(e) Work out Jamie's average speed on his journey from his home to his friend's house. Give your answer in kilometres per hour.	
kilometres per hour (2)	Q16
(Total 6 marks)	
17. Solve $4y + 3 = 2(y + 4)$	
<i>y</i> =	Q17
(Total 3 marks)	

Leave blank 18. Diagram **NOT** accurately drawn 10 cm The diagram shows a circle. The radius of the circle is 10 cm. Calculate the area of the circle. Give your answer correct to 3 significant figures. State the units with your answer. Q18 (Total 3 marks) **TOTAL FOR PAPER: 62 MARKS END**