Centre No.			Paper Reference					Surname	Initial(s)		
Candidate No.			1	3	8	0	/	4	Н	Signature	

Paper Reference(s)

1380/4H

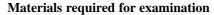
Edexcel GCSE

Mathematics (Linear) – 1380

Paper 4 (Calculator)

Bounds

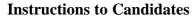
Past Paper Questions Arranged by Topic



Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Items included with question papers

Ni



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 26 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 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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1. $v = \sqrt{\frac{a}{b}}$

a = 6.43 correct to 2 decimal places. b = 5.514 correct to 3 decimal places.

By considering bounds, work out the value of v to a suitable degree of accuracy.

You must show all your working and give a reason for your final answer.

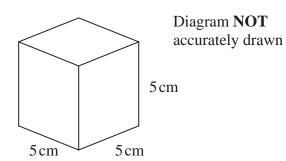
v =

(Total 5 marks)

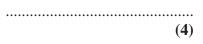
	Leave blank
3. A field is in the shape of a rectangle. The width of the field is 28 metres, measured to the nearest metre.	
(a) Work out the upper bound of the width of the field.	
metres (1)	
The length of the field is 145 metres, measured to the nearest 5 metres.	
(b) Work out the upper bound for the perimeter of the field.	
metres (3)	Q3
(Total 4 marks)	
(Total 4 marks)	
_	
_	

blaı
Q4

5. (a) A solid cube has sides of length 5 cm.



Work out the total surface area of the cube. State the units of your answer.



The volume of the cube is 125 cm³.

(b) Change 125 cm³ into mm³.



The weight of the cube is 87 grams, correct to the nearest gram.

(c) (i) What is the minimum the weight could be?

..... grams

(ii) What is the maximum the weight could be?

..... grams (2)

(Total 8 marks)

6. The length of a line is 63 centimetres, correct to the nearest centimetre.	Leave
(a) Write down the least possible length of the line.	
centimetres (1)	
(b) Write down the greatest possible length of the line.	
centimetres (1)	Q6
(Total 2 marks)	

 ${\bf 7}$. The voltage V of an electronic circuit is given by the formula

$$V = IR$$

where I is the current in amps and R is the resistance in ohms.

Given that V = 218 correct to 3 significant figures,

R = 12.6 correct to 3 significant figures,

calculate the lower bound of I.

.....

(Total 3 marks)

Q7