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General Certificate of Secondary Education  
2009

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71	
Candidate Number	
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## Mathematics



Module N1 Paper 2  
**(With calculator)**  
Foundation Tier

[GMN12]

MONDAY 18 MAY  
**2.45 pm – 3.30 pm**



GMN12

### TIME

45 minutes.

### INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all twelve** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

### INFORMATION FOR CANDIDATES

The total mark for this paper is 44.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a calculator, ruler, compasses, set-square and protractor.

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
<b>Total Marks</b>	

**BLANK PAGE**

1 Blocks are stacked as shown.

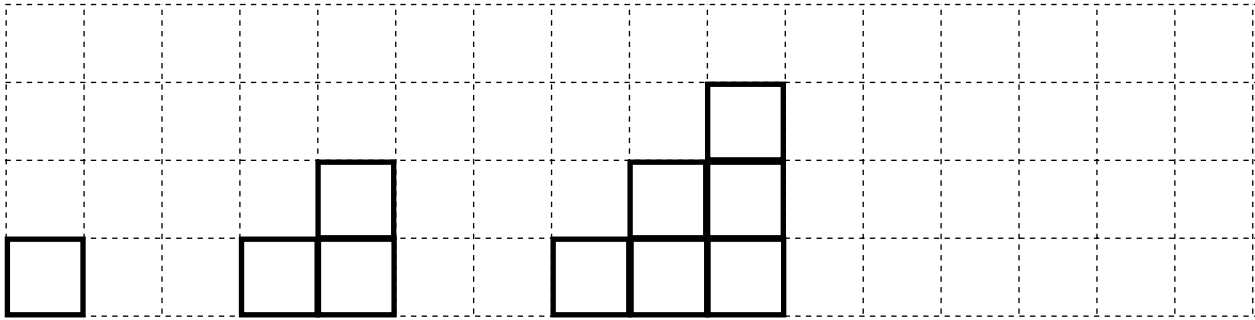


Diagram 1

Diagram 2

Diagram 3

Diagram 4

(a) Draw diagram 4. [1]

(b) Complete the table for diagrams 4 and 5.

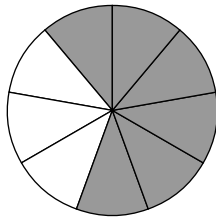
<b>Diagram</b>	1	2	3	4	5
<b>Number of blocks</b>	1	3	6		

[1]

Examiner Only

Marks Remark

2 (a)



Write down the fraction shaded, in its simplest form.

Answer \_\_\_\_\_ [2]

(b) Which fractions in the list

$$\frac{3}{12} \quad \frac{4}{15} \quad \frac{5}{20} \quad \frac{6}{24} \quad \frac{8}{30}$$

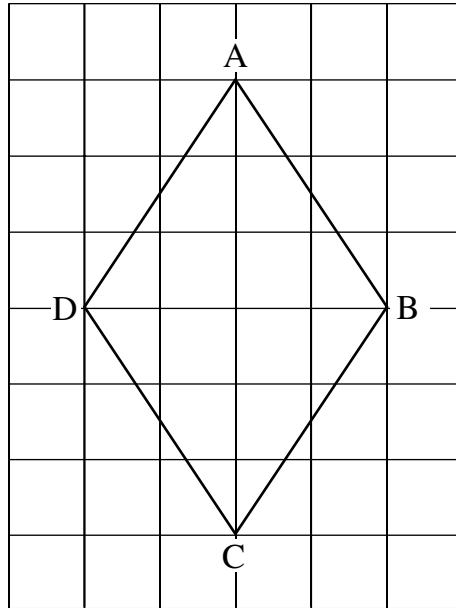
are **not** equivalent to  $\frac{1}{4}$  ?

Answer \_\_\_\_\_ [2]





6 (a) A four-sided shape ABCD is drawn on the 1 cm grid.



Find the area of ABCD.

Answer \_\_\_\_\_ cm<sup>2</sup> [1]

(b) ABC is a straight line.

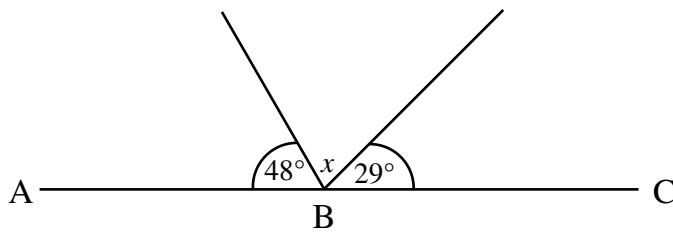


Diagram  
not drawn  
accurately

Calculate the size of angle  $x$ .

Answer \_\_\_\_\_ ° [1]

Examiner Only	
Marks	Remark







**10** The 10 boys in Class 12A gained the following marks in a test.

18, 12, 15, 9, 13, 14, 20, 11, 10, 8

The 8 girls in Class 12A gained a total of 128 marks.

Which group did better, boys or girls? Give a reason for your answer.

Answer \_\_\_\_\_

because \_\_\_\_\_

\_\_\_\_\_ [4]

**11** Calculate

(a) the cube root of 343

Answer \_\_\_\_\_ [1]

(b)  $\frac{10}{0.5^2}$

Answer \_\_\_\_\_ [2]

Examiner Only

Marks Remark



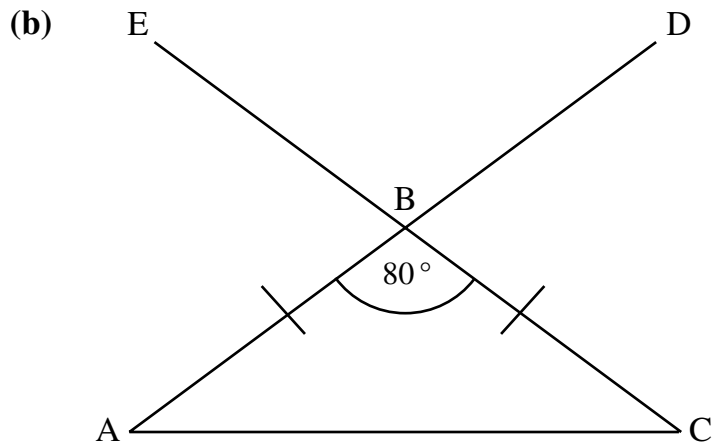


Diagram not  
drawn accurately

ABC is an isosceles triangle. ABD and CBE are straight lines.  
Angle ABC is  $80^\circ$

Find the size of

(i) angle EBD.

Answer \_\_\_\_\_  $^\circ$  [1]

(ii) angle BAC.

Answer \_\_\_\_\_  $^\circ$  [2]

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**THIS IS THE END OF THE QUESTION PAPER**

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Examiner Only	
Marks	Remark

