

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use	
Examiner's Initials	
Pages	Mark
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TOTAL	



General Certificate of Secondary Education  
Higher Tier  
March 2013

# Mathematics

# 43601H

## Unit 1

Thursday 28 February 2013 1.30 pm to 2.30 pm

# H

<p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>• a calculator</li> <li>• mathematical instruments.</li> </ul>	
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### Time allowed

- 1 hour

### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 54.
- The quality of your written communication is specifically assessed in Questions 1, 2 and 4. These questions are indicated with an asterisk (\*)
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer booklet.

### Advice

- In all calculations, show clearly how you work out your answer.



M A R 1 3 4 3 6 0 1 H 0 1

Answer **all** questions in the spaces provided.

- 1** The points scored by 20 teams in a competition are shown.

25	33	36	23	35
24	50	37	26	46
48	35	51	28	39
30	48	33	44	25

- \*1 (a)** Show this data on an ordered stem-and-leaf diagram.  
Remember to complete the key.

Key:  $2 \mid 3$  represents 23 points

2	3 4 5 5 6 8
3	0 3 3 5 5 6 7 9
4	4 6 8 8
5	0 1

(3 marks)



1 (b) Teams that score **more than** 25 points stay in the competition.

What percentage of the teams stay in the competition?

$$\frac{16}{20} \times 100 = 80\%$$

Answer ..... 80 ..... % (2 marks)

Turn over for the next question

5

Turn over ►

