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# GCSE MATHEMATICS

Higher Tier

Paper 2 Calculator

# H

Time allowed: 1 hour 30 minutes

### Materials

For this paper you must have:

- mathematical instruments
- a calculator



### Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- 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. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

### Advice

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

### For Examiner's Use

Pages	Marks
2 - 3	
4 - 5	
6 - 7	
8 - 9	
10 - 11	
12 - 13	
14 - 15	
16	
<b>TOTAL</b>	

# Practice Paper Set 3 Specification 4360

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Papers included topics of phenomena basic mechanisms modeling test methodologies materials performance engineering applications and service experience and failures and reflects the current emphasis with regard to material environment systems     **Structural Analysis of Historical Constructions - 2 Volume Set** Claudio Modena, P.B. Lourenço, P. Roca, 2004-11-15 Structural Analysis of Historical Constructions contains about 160 papers that were presented at the IV International Seminar on Structural Analysis of Historical Constructions that was held from 10 to 13 November 2004 in Padova Italy Following publications of previous seminars that were organized in Barcelona Spain 1995 and 1998 and Guimaraes Portugal 2001 state of the art information is presented in these two volumes on the preservation protection and restoration of historical constructions both comprising monumental structures and complete city centers These two proceedings volumes are devoted to the possibilities of numerical and experimental techniques in the maintenance of historical structures In this respect the papers originating from over 30 countries are subdivided in the following areas Historical aspects and general methodology Materials and laboratory testing Non destructive testing and inspection techniques Dynamic behavior and structural monitoring Analytical and numerical approaches Consolidation and strengthening techniques Historical timber and metal structures Seismic analysis and vulnerability assessment Seismic strengthening and innovative systems Case studies Structural Analysis of Historical Constructions is a valuable source of information for scientists and practitioners working on structure related issues of historical constructions     Standard Specifications for Transportation Materials and Methods of Sampling and Testing American Association of State Highway and Transportation Officials, 1978     **Fracture Mechanics** National Symposium on Fracture Mechanics, 1979     *Fracture Mechanics* Thomas A. Cruse, 1988     **Commerce Business Daily** ,1998-03     *The City Record* New York (N.Y.), 1914

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