

Friday 18 January 2013 – Afternoon

AS GCE MATHEMATICS (MEI)

4752/01 Concepts for Advanced Mathematics (C2)

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

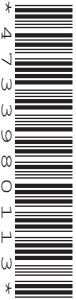
OCR supplied materials:

- Question Paper 4752/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number							Candidate number				
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INSTRUCTIONS TO CANDIDATES

These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION FOR CANDIDATES

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [] at the end of each question or part question on the Question Paper.
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **12** pages. The Question Paper consists of **8** pages. Any blank pages are indicated.

This paper has been pre modified for carrier language

Section A (36 marks)

1	
2 (i)	
2 (ii)	
2 (iii)	
3 (i)	

3 (ii)	
4 (i)	
4 (ii)	
5	

6	
7	
8 (i)	

8 (ii)	
9 (i)	
9 (ii)	

Section B (36 marks)

10 (i)	

10 (ii)	

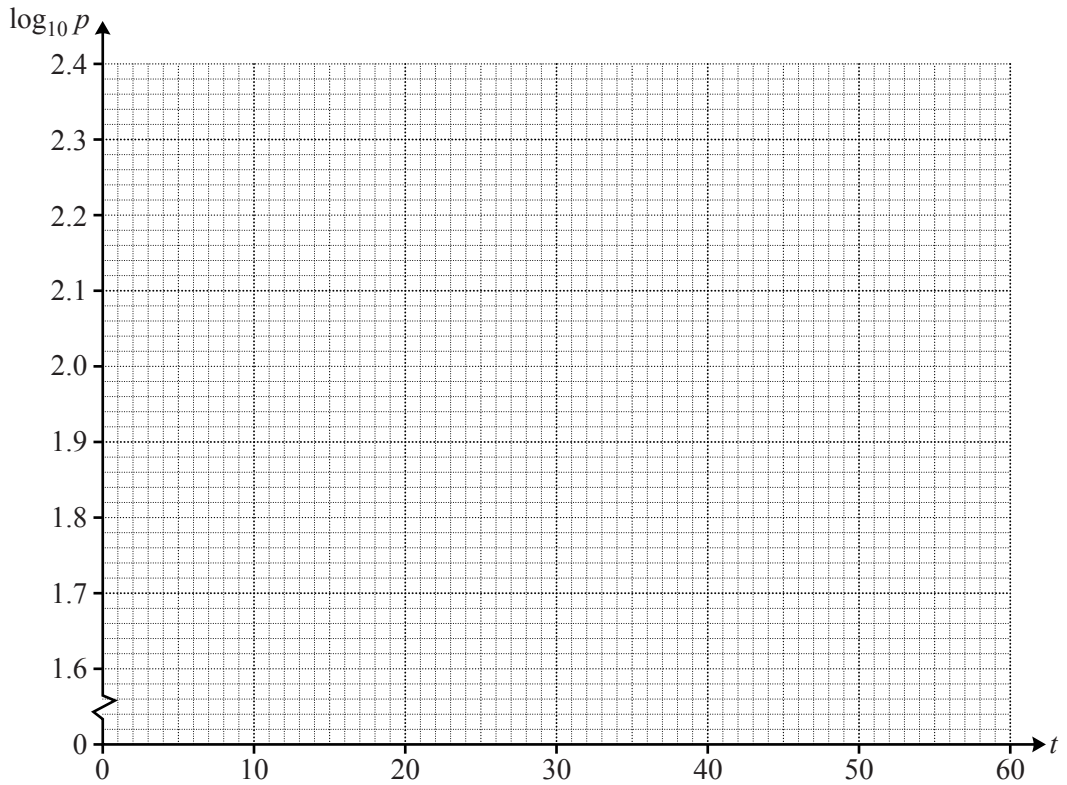
11 (i)(A)	
11 (i)(B)	

11 (ii)	

12 (i)

12 (ii)

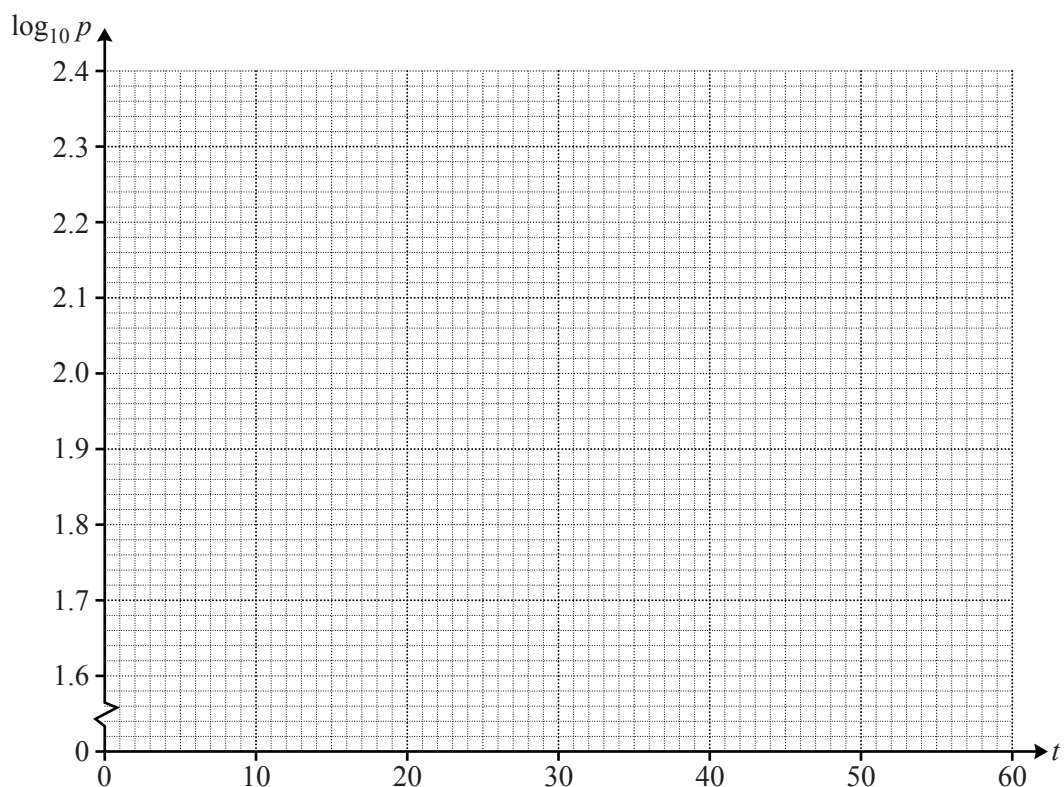
Year	1969	1979	1989	1999	2009
Number of years after 1960 (t)	9	19	29	39	49
Population in millions (p)	58.81	80.35	105.27	134.79	169.71
$\log_{10} p$	1.77	1.90			



A spare copy of this graph paper can be found on page 12.

12 (iii)	
12 (iv)	
12 (v)	

12(ii) Spare copy of graph paper for question 12(ii).



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