

**OCR**

Oxford Cambridge and RSA

**Wednesday 8 June 2016 – Morning****A2 GCE MATHEMATICS (MEI)****4772/01** Decision Mathematics 2**PRINTED ANSWER BOOK**

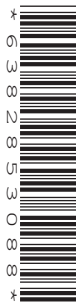
Candidates answer on this Printed Answer Book.

**OCR supplied materials:**

- Question Paper 4772/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

**Other materials required:**

- Scientific or graphical calculator

**Duration:** 1 hour 30 minutes

|                       |  |                      |  |
|-----------------------|--|----------------------|--|
| Candidate<br>forename |  | Candidate<br>surname |  |
| Centre number         |  | Candidate number     |  |

**INSTRUCTIONS TO CANDIDATES**

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

- The Question Paper will be found inside 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.

**1(i)&(ii)**

**1 (iii)**

1 (iv)

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| <b>2(a)</b>     |  |
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| <b>2(b)(i)</b>  |  |
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| <b>2(b)(ii)</b> |  |
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| <b>2(c)(i)</b>  |  |
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| <b>2(c)(ii)</b> |  |
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| <b>3 (i)</b>   |  |
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| <b>3 (ii)</b>  |  |
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| <b>3 (iii)</b> |  |
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| <b>3(iv)</b> |  |
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| <b>3(v)</b>  |  |
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| <b>3(vi)</b> |  |
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4(a)

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4(b)(i) A spare copy of these tables can be found on page 12.

|   | 1  | 2  | 3  | 4  | 5  |
|---|----|----|----|----|----|
| 1 | 48 | 24 | 28 | 11 | 15 |
| 2 | 24 | 8  | 4  | 11 | 16 |
| 3 | 28 | 4  | 8  | 7  | 12 |
| 4 | 11 | 11 | 7  | 14 | 14 |
| 5 | 15 | 16 | 12 | 14 | 24 |

|   | 1 | 2 | 3 | 4 | 5 |
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| 2 | 1 | 3 | 3 | 3 | 3 |
| 3 | 2 | 2 | 2 | 4 | 5 |
| 4 | 1 | 3 | 3 | 3 | 5 |
| 5 | 1 | 3 | 3 | 4 | 3 |

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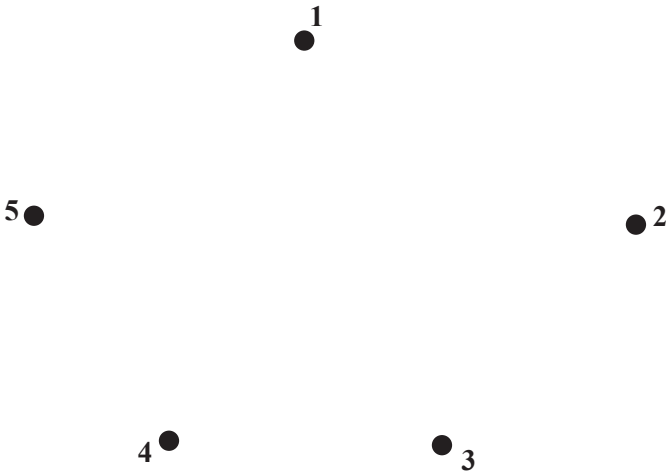
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4(b)(ii)

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| 4 (b) (iii) |  |
| 4 (b) (iv)  |                                                                                    |
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| <b>4(b)(v)</b> |  |
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**4(b)(i) Spare copy of tables for question 4(b)(i)**

|   | 1  | 2  | 3  | 4  | 5  |
|---|----|----|----|----|----|
| 1 | 48 | 24 | 28 | 11 | 15 |
| 2 | 24 | 8  | 4  | 11 | 16 |
| 3 | 28 | 4  | 8  | 7  | 12 |
| 4 | 11 | 11 | 7  | 14 | 14 |
| 5 | 15 | 16 | 12 | 14 | 24 |

|   | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 1 | 2 | 2 | 2 | 4 | 5 |
| 2 | 1 | 3 | 3 | 3 | 3 |
| 3 | 2 | 2 | 2 | 4 | 5 |
| 4 | 1 | 3 | 3 | 3 | 5 |
| 5 | 1 | 3 | 3 | 4 | 3 |

|   | 1 | 2 | 3 | 4 | 5 |
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