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| Year  10 | | *Factorisation* | Calculator  Allowed |
| **Skills and Knowledge Assessed:**   * Factorise algebraic expressions by taking out a common algebraic factor (ACMNA230) * Apply the four operations to simple algebraic fractions with numerical denominators (ACMNA232) * Expand binomial products and factorise monic quadratic expressions using a variety of strategies (ACMNA233) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 1** Short Answer Section | | | |
| Write all working and answers in the spaces provided on this test paper. | | | |
|  | Factorise  ………………………………………………………………………………………………. | | |
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| Year  10 | | *Factorisation* | Calculator Allowed |
|  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 2** Multiple Choice Section | | | |
| Mark all your answers on the accompanying multiple choice answer sheet, not on this test paper. You may do any working out on this test paper. Calculators are allowed for this section. | | | |
|  | Factorise  A.  B.  C.  D. | | |
|  | Factorise  A.  B.  C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |
|  | Factorise  A.  B.    C.  D. | | |

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| Year  10 | *Factorisation* | Calculator Allowed |
|  | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 3** Longer Answer Section | | |
| Write all working and answers in the spaces provided on this test paper. | | |

|  | | **Marks** |
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|  | Factorise the following completely: |  |
|  | ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **2** |
|  | ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **2** |
|  | Simplify the algebraic fractions by first factorising. |  |
|  | ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **3** |
|  | b)  ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **3** |
|  | c)  ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **3** |

*Multiple Choice Answer Sheet*

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D

*Factorisation*

ANSWERS

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| Section 1 | |
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| Section 2 | |
|  | A |
|  | B |
|  | C |
|  | C |
|  | D |
|  | A |
|  | D |
|  | B |
|  | C |
|  | A |

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| Section 3 | |  |
|  |  | 1 for common factor  1 for binomial factor |
|  |  | 1 for common factor  1 for binomial factor |
|  |  |  |
|  | a) | 2 for factorisations  1 for simplifying |
|  | b) | 2 for factorisations  1 for simplifying |
|  | c) | 2 for factorisations  1 for addition |

*Multiple Choice Answer Sheet*

Name Marking Sheet

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D