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| Year 10 | | *Factorisation* | Non Calculator |
| **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 .  ………………………………………………………………………………………………. | | |
|  | 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. | | |
|  | 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** |
| --- | --- | --- |
| 1. | Simplify the following algebraic fractions, by first factorising. |  |
|  | (a)  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | **2** |
|  | (b)  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | **2** |

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| 2. | Simplify the following algebraic fractions, by first factorising. |  |
|  | (a)  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | **2** |
|  | (b)  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | **3** |
|  | (c)  ……………………………………………………………………………………………....  ………………………………………………………………………………………………. | **3** |

*Multiple Choice Answer Sheet*

*Factorisation*

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

11. A B C D

12. A B C D

13. A B C D

14. A B C D

15. A B C D

16. A B C D

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| Year 10 | | *Factorisation* | Non Calculator |
| **Section 1** Short Answer Section | | | |
| ANSWERS | | | |
| No. | WORKING | | ANSWER |
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| Year 10 | | *Factorisation* | Calculator Allowed | |
| **Section 2** Multiple Choice Section | | | | |
| ANSWERS | | | | |
| No. | WORKING | | | ANSWER |
|  |  | | | **B** |
|  |  | | | **D** |
|  |  | | | **C** |
|  |  | | | **B** |
|  |  | | | **A** |
|  |  | | | **A** |
|  |  | | | **C** |
|  |  | | | **D** |
|  |  | | | **A** |
|  |  | | | **B** |
|  |  | | | **A** |
|  |  | | | **D** |
|  |  | | | **B** |
|  |  | | | **C** |
|  |  | | | **D** |
|  |  | | | **C** |

*Multiple Choice Answer Sheet*

*Factorisation*

Name \_\_\_\_\_\_\_ANSWERS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

11. A B C D

12. A B C D

13. A B C D

14. A B C D

15. A B C D

16. A B C D

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| Year 10 | | *Factorisation* | Calculator Allowed | |
| **Section 3** Longer Answer Section | | | | |
| ANSWERS | | | | |
|  | | | | **Marks** |
| 1. | (a) | | | **2 marks for correct answer**  **1 mark for answer with some correct factorisation or cancellation** |
|  | (b) | | | **2 marks for correct answer**  **1 mark for answer with some correct factorisation or cancellation** |
| 2. | (a) | | | **2 marks for correct answer**  **1 mark for answer with some correct factorisation or cancellation** |
|  | (b) | | | **3 marks for correct answer**  **2 marks for otherwise correct answer with minor error**  **1 mark for answer with some correct factorisation or cancellation** |
|  | (c) | | | **3 marks for correct answer**  **2 marks for otherwise correct answer with minor error**  **1 mark for answer with some correct factorisation or cancellation** |