|  |  |  |  |
| --- | --- | --- | --- |
| Year | | *Algebraic Products* | Non Calculator  Section |
| **Skills and Knowledge Assessed:**   * Apply the distributive law to the expansion of algebraic expressions, including binomials, and collect like terms where appropriate (ACMNA213) * Expand binomial products and factorise monic quadratic expressions using a variety of strategies (ACMNA233) | | | Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Section 1** Non Calculator Section | | | |
| Write all working and answers in the spaces provided on this test paper. | | | |
|  | Simplify  ………………………………………………………………………………………………. | | |
|  | Simplify  ………………………………………………………………………………………………. | | |
|  | Simplify  ………………………………………………………………………………………………. | | |
|  | Simplify  ………………………………………………………………………………………………. | | |
|  | Expand  ………………………………………………………………………………………………. | | |
|  | Expand  ………………………………………………………………………………………………. | | |
|  | Expand  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |
|  | Expand and simplify  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Year | | *Algebraic Products* | Calculator Allowed  Section |
|  | 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. | | | |
|  | A.  B.  C.  D. | | |
|  | Which of these does not simplify to  ?  A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | Expand and simplify  A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |
|  | A.  B.  C.  D. | | |

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

|  | | **Marks** |
| --- | --- | --- |
|  | Expand and simplify the following |  |
|  | ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **2** |
|  | ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **2** |
|  | ……………………………………………………………………………………………….  ……………………………………………………………………………………………….  ………………………………………………………………………………………………. | **2** |

*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

11. A B C D

12. A B C D

*Algebraic Products*

ANSWERS

|  |  |
| --- | --- |
| Section 1 | |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| Section 2 | |
|  | D |
|  | A |
|  | D |
|  | C |
|  | A |
|  | B |
|  | C |
|  | B |
|  | A |
|  | B |
|  | D |
|  | C |

|  |  |  |
| --- | --- | --- |
| Section 3 | |  |
|  |  | 1 mark for expansions  1 for simplifying |
|  |  | 1 mark for expansions  1 for simplifying |
|  |  | 1 mark for expansion  1 for simplifying |

*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

11. A B C D

12. A B C D