|  |  |  |
| --- | --- | --- |
| Year  7 | Mathematics Test  Introductory Algebraic Techniques | **Non Calculator**  **Test** |
|  | Name |  |

|  |  |
| --- | --- |
| **Answer all questions in the spaces provided on this test paper by**  **Writing the answer in the box provided.**  **or**  **Shading in the bubble for the correct answer from the four choices provided.**  **Show any working out on the test paper.** | |
| 1. |  |
| 2. |  |
| 3. |  |
| 4. | Which of the following is **not** equivalent to ? |
| 5. |  |
| 6. | Simplify the expression |
| 7. | Simplify . |
| 8. | Simplify |
| 9. |  |
| 10. | Simplify  . |
| 11. | Which of the following is **not** equivalent to ? |
| 12. |  |
| 13. | Simplify |
| 14. |  |
| 15. |  |
| 16. | Simplify |
| 17. | Which of the following is **not** equivalent to ? |
| 18. | If , then  4  9 |
| 19. | When |
| 20. | When calculate the value of |
| 21. | Find the value of  when |
| 22. | Using the rule , find the value of |
| 23. | Complete the values in the table using the rule . |
| 24. | Complete the values in the table using the rule . |
| 25. | “The sum of *w* and *y”* could be written as: |
| 26. | Write an algebraic expression for “Twice the product of *p* and *q*” |
| 27. | The expression  could represent:  The number of cents is equal to 10 times the number of dollars.  The number of dollars is equal to 100 times the number of cents.  The number of dollars is equal to 10 times the number of cents.  The number of cents is equal to 100 times the number of dollars. |
| 28. | Which equation below is always true? |
| 29. | Simplify the expression: |
| 30. | When , find the value of: |

|  |  |  |
| --- | --- | --- |
| Year  7 | Mathematics Test  Introductory Algebraic Techniques |  |
|  | ANSWERS |  |

|  |  |
| --- | --- |
| **Answer all questions in the spaces provided on this test paper by**  **Writing the answer in the box provided.**  **or**  **Shading in the bubble for the correct answer from the four choices provided.**  **Show any working out on the test paper.** | |
| 1. |  |
| 2. |  |
| 3. |  |
| 4. | Which of the following is **not** equivalent to ? |
| 5. |  |
| 6. | Simplify the expression  *-2k* |
| 7. | Simplify . |
| 8. | Simplify  *8d2e2f* |
| 9. |  |
| 10. | Simplify  . |
| 11. | Which of the following is **not** equivalent to ? |
| 12. |  |
| 13. | Simplify |
| 14. |  |
| 15. |  |
| 16. | Simplify |
| 17. | Which of the following is **not** equivalent to ? |
| 18. | If , then  4  9 |
| 19. | When |
| 20. | When calculate the value of |
| 21. | Find the value of  when |
| 22. | Using the rule , find the value of |
| 23. | Complete the values in the table using the rule . |
| 24. | Complete the values in the table using the rule . |
| 25. | “The sum of *w* and *y”* could be written as: |
| 26. | Write an algebraic expression for “Twice the product of *p* and *q*” |
| 27. | The expression  could represent:  The number of cents is equal to 10 times the number of dollars.  The number of dollars is equal to 100 times the number of cents.  The number of dollars is equal to 10 times the number of cents.  The number of cents is equal to 100 times the number of dollars. |
| 28. | Which equation below is always true? |
| 29. | Simplify the expression: |
| 30. | When , find the value of: |