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| Year  9 | | Mathematics Test  Linear Equations and Inequations. | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this test paper. | | | |
| 1. | Solve .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Solve .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | Solve .  ..........................................................................................................................................................  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | Solve .  ..........................................................................................................................................................  .......................................................................................................................................................... | | | |
| 5. | Solve the equation  .  ..........................................................................................................................................................    ..........................................................................................................................................................  .......................................................................................................................................................... | | | |
| 6. | Determine if  is a solution to the equation .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | Solve  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | Sketch the solution to ?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 9. | Solve  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | Using the formula  , find the value of *n* when  ,  and .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 11. | Use the formula  to find the value of *h* when  ,  and .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | | Mathematics Test  Linear Equations and Inequations. | | Calculator Allowed |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | 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. | | | |
| 1. | Solve for *g* :    A.  B.  C.  D. | | | |
| 2. | Which is the correct solution to the equation:    A.  B.  C.  D. | | | |
| 3. | Which line in the solution of an equation, contains an error.     1. Line 1 B. Line 2 C. Line 3 D. Line 4 | | | |
| 4. | Which of the following is the solution to the equation     1. B.  C.  D. | | | |
| 5. | Find the solution to the equation     1. B.  C.  D. | | | |
| 6. | If , find *d* when *t* = 32, *a* = 7 and *n* = 6.  A. *d =* -5 B. *d =* 5 C. *d =* 10 D. *d =* 15 | | | |
| 7. | Using the formula  , find the value of *b*, when *c* = 30, *l* = 7, and *d* = 5.5.  A*. b* = -4 B. *b* = 4 C. *b* = 8 D. *b* = 16 | | | |
| 8. | Which number line graph represents  ?  A.  B.  C.  D. | | | |
| 9. | The solution to  is:  A.  B.  C.  D. | | | |
| 10. | Which line in the solution below contains an error?     1. Line 1 B. Line 2 C. Line 3 D. Line 4 | | | |

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| Year  9 | | | Mathematics Test  Linear Equations and Inequations. | | | Calculator Section | |
| Longer Questions | | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | |
|  | Write all working and answers in the spaces provided on this test paper.  Calculators are allowed for this section. | | | | | | |
| 1. Solve the equations below, showing all lines of working. | | | | | | | |
|  | (a)  2 marks | ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. | | (c)  3  marks | | | ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. |
| (b)  2 marks | ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. | | (d)  3  marks | | | ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. |
| 2. | a)  2  marks | Solve,  and graph solution on a number line.  ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. | | (b)  3 marks | | | Use the formula  to find the value of *a* when *r* =15, *b* = 2 and *c* = 12.  ………………………………………….  ………………………………………….  ………………………………………….  …………………………………………. |

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| Year  9 | Mathematics Test  Linear Equations and Inequations. | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Multiple Choice Answer 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

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| Year  9 | Mathematics Test  Linear Equations and Inequations. |
| Answer Sheet |

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| --- | --- |
| Short Answer | |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |

|  |  |
| --- | --- |
| Multiple Choice | |
| 1 | A |
| 2 | C |
| 3 | C |
| 4 | B |
| 5 | A |
| 6 | B |
| 7 | C |
| 8 | D |
| 9 | A |
| 10 | D |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | (a)  2 marks |  | (c)  3  marks |  |
| (b)  2 marks |  | (d)  3  marks |  |
| 2. | a)  2  marks |  | (b)  3 marks | . |