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| Year  9 | | Basic Algebra Skills Practice Test | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
| 1. | Simplify  .......................................................................................................................................................... | | | |
| 2. | Simplify  .......................................................................................................................................................... | | | |
| 3. | Simplify 3*m* + 7*m* + 4*m*  - 5*m*  .......................................................................................................................................................... | | | |
| 4. | Simplify 3*a* + 4*b* + 7*a* -2*b*  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 5. | Simplify completely:  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | Simplify completely:  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | If , what is the value of .  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | If , what is the value of  ?  .........................................................................................................................................................  ......................................................................................................................................................... | | | |
| 9. | Simplify 3*m*2 -2*mn* -4*nm* -6*m*2  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | Simplify  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 11. | Expand 3(*a* + 2)  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 12. | Expand 6*b*(2*ab* + 5*a*)  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 13 | Expand and simplify: 8*c* + 5 + 3(*c* + 2)  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 14 | Expand and simplify: 3(*m* – 4) + 4(*m* – 2)  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 15 | Simplify  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 16 | Simplify  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 17 | Simplify  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 18 | Expand 3*x*3*y*(2*y* – 3*x*2)  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 19. | Factorise  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 20. | Simplify  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | | Basic Algebra Skills Practice Test | | Calculator |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Mark all your answers on the accompanying multiple choice answer sheet, not on this Practice Test paper. You may do any working out on this Practice Test paper. Calculators are allowed for this section. | | | |
| 1. | Simplify  A.  B.  C.  D. | | | |
| 2. | Simplify  A.  B.  C.  D. | | | |
| 3. | Simplify  A.  B.  C.  D. | | | |
| 4. | Which of the following is not equal to  A.  B.  C.  D. | | | |
| 5. | The formula  gives the distance travelled by a dragster accelerating from a standing start, where  *d =* distance travelled in metres.  *a* = acceleration in metres/second2.  *t* = time that it is accelerating in seconds.  What is the acceleration of a dragster that accelerates over 200m in 5 seconds?  A. 4 m/s2 B. 16 m/s2 C. 5 m/s2 D. 64 m/s2 | | | |
| 6. | Which expression below is NOT equivalent to  A.  B.  C. D. | | | |
| 7. | When and the value of is :  A. 4 B. -4 C 21 D -3 | | | |
| 8. | 3(2*x* – 4) =  A. 5*x* – 1 B. 6*x* – 4 C. 6*x* – 12 D. 5*x* – 12 | | | |
| 9. | Which expression below represents “Half the sum of  and ”.  A.  B.  C.  D. | | | |
| 10. | can be simplified to:  A.  B.  C.  D. | | | |
| 11. | =  A.  B.  C.  D. | | | |
| 12. | =  A.  B.  C.  D. | | | |
| 13. | =  A.  B.  C.  D. | | | |
| 14. | The factorisation of 10*y* – 15 is :  A. 10(*y* – 15) B. 5(2*y* – 15) C. 10(2*y* – 3) D 5(2*y* – 3) | | | |
| 15. | when fully factorised is:  A.  B.  C.  D. | | | |
| 16. | When a = 7 and b = -3 the value of  is  A. 64 B. 3 C. 50 D. 8 | | | |
| 17. | The coefficient of *y* in *y3 –* 3*y2 –* 5*y +* 3 is  A. 5 B. -3 C. -5 D. 0 | | | |
| 18. | The constant term in 11 – 3*y* – 5*y*2 + 2*y*3 is  A. 0 B. 2 C. -3 D. 11 | | | |
| 19. | A.  B.  C.  D. | | | |
| 20. | A.  B.  C.  D. | | | |

Basic Algebra Skills Practice Test

Multiple Choice Section

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

13. A B C D

14. A B C D

15. A B C D

16. A B C D

17. A B C D

18. A B C D

19. A B C D

20. A B C D