

Name: \_\_\_\_\_

Class: \_\_\_\_\_

## ALGEBRA

Solve for the variable.

- |                         |                         |                         |                         |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 1. $1y + 8 = 17$ _____  | 2. $59 = 8y + 3$ _____  | 3. $54 = 9 + 9y$ _____  | 4. $2 + 8y = 34$ _____  |
| 5. $61 = 5 + 7y$ _____  | 6. $5y + 7 = 47$ _____  | 7. $9 = 8 + 1y$ _____   | 8. $7 = 3y + 1$ _____   |
| 9. $2y + 1 = 7$ _____   | 10. $4 + 4y = 16$ _____ | 11. $2y + 9 = 17$ _____ | 12. $4y + 7 = 15$ _____ |
| 13. $13 = 2y + 3$ _____ | 14. $7y + 4 = 60$ _____ | 15. $1 + 2y = 17$ _____ | 16. $35 = 8 + 9y$ _____ |
| 17. $1y + 8 = 16$ _____ | 18. $9 = 2y + 5$ _____  | 19. $46 = 6 + 8y$ _____ | 20. $18 = 4 + 7y$ _____ |
| 21. $14 = 4 + 2y$ _____ | 22. $7y + 2 = 9$ _____  | 23. $2y + 6 = 24$ _____ | 24. $9y + 7 = 16$ _____ |
| 25. $4 + 2y = 22$ _____ | 26. $8y + 5 = 37$ _____ | 27. $16 = 9 + 1y$ _____ | 28. $1 + 3y = 4$ _____  |
| 29. $54 = 7y + 5$ _____ | 30. $28 = 6y + 4$ _____ | 31. $7 + 5y = 22$ _____ | 32. $33 = 9 + 3y$ _____ |
| 33. $56 = 7 + 7y$ _____ | 34. $24 = 6 + 6y$ _____ | 35. $8y + 5 = 13$ _____ | 36. $6 + 4y = 22$ _____ |
| 37. $4y + 2 = 10$ _____ | 38. $2 + 1y = 10$ _____ | 39. $27 = 7 + 4y$ _____ | 40. $16 = 1y + 7$ _____ |
| 41. $3 + 6y = 21$ _____ | 42. $41 = 5 + 4y$ _____ | 43. $37 = 7 + 5y$ _____ | 44. $8 + 3y = 20$ _____ |
| 45. $8y + 4 = 60$ _____ | 46. $6y + 3 = 51$ _____ | 47. $19 = 3 + 4y$ _____ | 48. $64 = 1 + 7y$ _____ |
| 49. $52 = 8y + 4$ _____ | 50. $9 + 3y = 12$ _____ | 51. $7y + 7 = 35$ _____ | 52. $36 = 5y + 1$ _____ |
| 53. $3y + 3 = 21$ _____ | 54. $8 + 1y = 15$ _____ | 55. $37 = 2 + 7y$ _____ | 56. $4 + 3y = 7$ _____  |
| 57. $33 = 8 + 5y$ _____ | 58. $7y + 1 = 43$ _____ | 59. $8y + 3 = 75$ _____ | 60. $23 = 2 + 7y$ _____ |
| 61. $9y + 2 = 83$ _____ | 62. $8 + 4y = 16$ _____ | 63. $3y + 6 = 27$ _____ | 64. $18 = 1y + 9$ _____ |
| 65. $56 = 8 + 8y$ _____ | 66. $23 = 2 + 3y$ _____ | 67. $59 = 5 + 9y$ _____ | 68. $14 = 6 + 4y$ _____ |
| 69. $8y + 1 = 41$ _____ | 70. $1y + 5 = 10$ _____ | 71. $1 + 6y = 25$ _____ | 72. $8y + 2 = 50$ _____ |

Name: \_\_\_\_\_

Class: \_\_\_\_\_

## ALGEBRA

Solve for the variable.

1.  $1y + 8 = 17$   $y = 9$     2.  $59 = 8y + 3$   $y = 7$     3.  $54 = 9 + 9y$   $y = 5$     4.  $2 + 8y = 34$   $y = 4$

5.  $61 = 5 + 7y$   $y = 8$     6.  $5y + 7 = 47$   $y = 8$     7.  $9 = 8 + 1y$   $y = 1$     8.  $7 = 3y + 1$   $y = 2$

9.  $2y + 1 = 7$   $y = 3$     10.  $4 + 4y = 16$   $y = 3$     11.  $2y + 9 = 17$   $y = 4$     12.  $4y + 7 = 15$   $y = 2$

13.  $13 = 2y + 3$   $y = 5$     14.  $7y + 4 = 60$   $y = 8$     15.  $1 + 2y = 17$   $y = 8$     16.  $35 = 8 + 9y$   $y = 3$

17.  $1y + 8 = 16$   $y = 8$     18.  $9 = 2y + 5$   $y = 2$     19.  $46 = 6 + 8y$   $y = 5$     20.  $18 = 4 + 7y$   $y = 2$

21.  $14 = 4 + 2y$   $y = 5$     22.  $7y + 2 = 9$   $y = 1$     23.  $2y + 6 = 24$   $y = 9$     24.  $9y + 7 = 16$   $y = 1$

25.  $4 + 2y = 22$   $y = 9$     26.  $8y + 5 = 37$   $y = 4$     27.  $16 = 9 + 1y$   $y = 7$     28.  $1 + 3y = 4$   $y = 1$

29.  $54 = 7y + 5$   $y = 7$     30.  $28 = 6y + 4$   $y = 4$     31.  $7 + 5y = 22$   $y = 3$     32.  $33 = 9 + 3y$   $y = 8$

33.  $56 = 7 + 7y$   $y = 7$     34.  $24 = 6 + 6y$   $y = 3$     35.  $8y + 5 = 13$   $y = 1$     36.  $6 + 4y = 22$   $y = 4$

37.  $4y + 2 = 10$   $y = 2$     38.  $2 + 1y = 10$   $y = 8$     39.  $27 = 7 + 4y$   $y = 5$     40.  $16 = 1y + 7$   $y = 9$

41.  $3 + 6y = 21$   $y = 3$     42.  $41 = 5 + 4y$   $y = 9$     43.  $37 = 7 + 5y$   $y = 6$     44.  $8 + 3y = 20$   $y = 4$

45.  $8y + 4 = 60$   $y = 7$     46.  $6y + 3 = 51$   $y = 8$     47.  $19 = 3 + 4y$   $y = 4$     48.  $64 = 1 + 7y$   $y = 9$

49.  $52 = 8y + 4$   $y = 6$     50.  $9 + 3y = 12$   $y = 1$     51.  $7y + 7 = 35$   $y = 4$     52.  $36 = 5y + 1$   $y = 7$

53.  $3y + 3 = 21$   $y = 6$     54.  $8 + 1y = 15$   $y = 7$     55.  $37 = 2 + 7y$   $y = 5$     56.  $4 + 3y = 7$   $y = 1$

57.  $33 = 8 + 5y$   $y = 5$     58.  $7y + 1 = 43$   $y = 6$     59.  $8y + 3 = 75$   $y = 9$     60.  $23 = 2 + 7y$   $y = 3$

61.  $9y + 2 = 83$   $y = 9$     62.  $8 + 4y = 16$   $y = 2$     63.  $3y + 6 = 27$   $y = 7$     64.  $18 = 1y + 9$   $y = 9$

65.  $56 = 8 + 8y$   $y = 6$     66.  $23 = 2 + 3y$   $y = 7$     67.  $59 = 5 + 9y$   $y = 6$     68.  $14 = 6 + 4y$   $y = 2$

69.  $8y + 1 = 41$   $y = 5$     70.  $1y + 5 = 10$   $y = 5$     71.  $1 + 6y = 25$   $y = 4$     72.  $8y + 2 = 50$   $y = 6$