

Solving Single-Variable Equations

NAME: _____

DATE: _____

Solve for the variable.

1. $70 = 5(b + 7)$ _____
2. $6(a + 9) = 102$ _____
3. $7(s + 4) + 8 = 99$ _____
4. $27 = 3(a + 7)$ _____
5. $-24 = 6 - 3(s + 7)$ _____
6. $8(b + 9) + 9 = 145$ _____
7. $4 - 2(a + 8) = -24$ _____
8. $9(s + 5) = 81$ _____
9. $8 = 1(a + 7) - 3$ _____
10. $5 = 1(x + 5) - 8$ _____
11. $x + 2(x + 6) = 21$ _____
12. $8(b + 5) - 9 = 63$ _____
13. $9(x + 4) + 2 = 110$ _____
14. $s + 3(s + 5) = 31$ _____
15. $63 = x + 6(x + 7)$ _____
16. $21 = 3(x + 2) + 6$ _____
17. $b + 7(b + 9) = 79$ _____
18. $5(b + 8) = 55$ _____
19. $9(b + 1) + 1 = 28$ _____
20. $46 = 9(b + 4) + 1$ _____
21. $61 = 6(a + 9) - 5$ _____
22. $5(b + 2) - 7 = 23$ _____

Answer Key

NAME: _____

DATE: _____

Solve for the variable.

1. $70 = 5(b + 7)$ $b = 7$
2. $6(a + 9) = 102$ $a = 8$
3. $7(s + 4) + 8 = 99$ $s = 9$
4. $27 = 3(a + 7)$ $a = 2$
5. $-24 = 6 - 3(s + 7)$ $s = 3$
6. $8(b + 9) + 9 = 145$ $b = 8$
7. $4 - 2(a + 8) = -24$ $a = 6$
8. $9(s + 5) = 81$ $s = 4$
9. $8 = 1(a + 7) - 3$ $a = 4$
10. $5 = 1(x + 5) - 8$ $x = 8$
11. $x + 2(x + 6) = 21$ $x = 3$
12. $8(b + 5) - 9 = 63$ $b = 4$
13. $9(x + 4) + 2 = 110$ $x = 8$
14. $s + 3(s + 5) = 31$ $s = 4$
15. $63 = x + 6(x + 7)$ $x = 3$
16. $21 = 3(x + 2) + 6$ $x = 3$
17. $b + 7(b + 9) = 79$ $b = 2$
18. $5(b + 8) = 55$ $b = 3$
19. $9(b + 1) + 1 = 28$ $b = 2$
20. $46 = 9(b + 4) + 1$ $b = 1$
21. $61 = 6(a + 9) - 5$ $a = 2$
22. $5(b + 2) - 7 = 23$ $b = 4$