

Name: \_\_\_\_\_ Per. \_\_\_\_\_

### Equations Worksheet

**Directions:** Solve each equation for the variable. SHOW YOUR WORK FOR CREDIT!

1.  $2x + 3 = 11$

2.  $2x - 2 = 0$

3.  $29 = 6x - 8$

4.  $7 - 2x = 13$

5.  $-16 = 4x - 12$

6.  $5x + 9 = 20$

7.  $5x - 4 = 21$

8.  $42 = 6 + 9x$

9.  $8 - 2x = 10$

10.  $22 = 3x - 5$

11.  $5 = 5x - 20$

12.  $5x - 3 = 28$

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13.  $-5 = 6d - 7d + 4$

14.  $4e - 4 = e - 4$

15.  $-7f + 6 = 116 + 3f$

16.  $4 + 2g + 5g = -66$

17.  $5h + 3 = 3h + 11$

18.  $5i + 4 = 14 + 4i$

19.  $4j + 26 = 50 + 6j$

20.  $2k + 36 = 6k - 12$

21.  $L + 21 = -L + 87$

22.  $3q + 7 = 7q - 13$

23.  $21 - r = -87 + 2r$

24.  $2s - 54 = -s + 21$

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25.  $4a - 9 = 7a + 12$

26.  $13b = 6b + 14$

27.  $3(5c - 4) = 8c + 2$

28.  $2d + 18 = 12 - 6(d + 7)$

29.  $8(e - 5) = 2(3e - 8)$

30.  $f - 8 = 6 + 3f$

31.  $g + 4g = 2g - 15$

32.  $-3(2h - 4) = 20 - 4h$

33.  $-5i - 3 = -43$

34.  $j - (5 - 3j) = 7j + 4$

35.  $8k - 15 = 4k + 13$

36.  $2(5 - 3r) = -4r - 16$

## Worksheet Answers

1. 4
2. 1
3.  $\frac{37}{6}$  or  $6\frac{1}{6}$
4. -3
5. -1
6.  $\frac{11}{5}$  or  $2\frac{1}{5}$
7. 5
8. 4
9. -1
10. 9
11. 5
12.  $\frac{31}{5}$  or  $6\frac{1}{5}$
13. 9
14. 0
15. -11
16. -10
17. 4
18. 10
19. -12
20. 12
21. 33
22. 5
23. 36
24. 25
25. -7
26. 2
27. 2
28. -6
29. 12
30. -7
31. -5
32. -4
33. -8
34. -3
35. 7
36. 13