

Solving Linear Equations: Answers

1. a. addition b. lose 12 lbs c. subtraction d. $x+12=154$ e. 142 lbs
2. a. $x=-6$ b. $x=-\frac{5}{12}$ c. $x=-7.9$
3. a. $x-9=133$ b. gain 9 lbs, addition c. add d. add it to the other side e. $x=142$
4. a. $x=1.29$ b. $y=35$ c. $m=2\frac{1}{2}$
5. a. division b. multiplication c. $x=-5$ d. $y=14$
6. a. $y=46.25$ b. $x=\frac{1}{2}$ c. $m=-18$ d. $a=-13.44$
7. a. $d=8$ b. $d=1\frac{2}{3}$ c. $d=2$ d. $d=15$ e. $x=-15$ f. $x=-5$ g. $x=-2$
h. $x=-50$ i. $x=187.5$ j. $x=77.5$ k. $x=72.5$ l. $x=-30$
8. a. It contains 2 operations. b. 3 times x minus 2 is 16. c. multiplication and subtraction
d. Add to undo subtraction and divide to undo multiplication.
9. a. It contains 2 operations. b. y divided by negative 3 plus 4 is 9. c. addition and division
d. Subtract to undo addition and multiply to undo division.
10. $x=-7$ 11. $x=0$ 12. $x=1\frac{2}{3}$
13. $x=-25$ 14. $x=-11\frac{3}{4}$ 15. $z=-5$
16. $p=-28$ 17. $s=-12$ 18. Combine like terms.
19. $x=-3$ 20. $x=12$ 21. $y=8$
22. $x=1$ 23. $x=12$ 24. $a=-4$
25. Use the Distributive Property to remove parentheses.
26. $x=1$ 27. $x=8$ 28. $x=2$
29. $x=\frac{1}{12}$ 30. $y=12\frac{1}{2}$ 31. $x=-3$
32. $x=-3$ 33. $x=5$