

ALGEBRA 1
2-4 PRACTICE WORKSHEET

Name _____
Date _____

Solve each equation. Show proper formatting!

1. $4y + 15 = 6y - 11$

2. $5p + 6 = -4p - 8$

3. $25h + 40 = -15h - 80$

4. $-2m + 13 = 2m - 3$

5. $4(h + 2) = 3(h - 2)$

6. $-(3b - 15) = 6(2b + 5)$

7. $5x + 7 + 3x = -8 + 3x$

8. $18 - 6a = 4a - 4(a + 3)$

Solve each equation showing proper formatting.
Write "identity" or "no solution," if applicable.

9. $6(4z + 2) = 3(8z + 4)$

10. $-8t - 3t + 2 = -5t - 6t$

11. $\frac{3}{4} + \frac{1}{4}m = \frac{3}{4}m - \frac{1}{4}$

12. $0.2f + 0.6(f + 20) = -8 + 0.4f$

13. Six times the sum of a number and 3 is 12 less than 12 times the number.

a. Define a variable. _____

b. Write and solve an equation.

c. Answer in a sentence. _____

14. Jeremy is looking at two different lawncare companies to weed and mulch his garden. Greenscape Lawncare charges \$100 for the mulch, plus \$12 per hour for the labor. DJ's Lawncare charges \$23 per hour, which includes the price for the mulch. What is maximum number of hours for which DJ's Lawncare is the better deal?

a. Define a variable. _____

b. Write and solve an equation.

c. Answer in a sentence. _____