

Name _____ Date _____ Class _____

LESSON **Practice C**
12-1 *Solving Two-Step Equations*

Solve. Check each answer.

1. $15h - 4 = 6$

2. $25k + 12 = -13$

3. $8m - 14 = -7$

4. $-5m - 6 = 84$

5. $3f + 8 = 28$

6. $5z + 6 = -20$

Solve.

7. $\frac{d}{14} - 9 = 5$

8. $\frac{a}{35} + 20 = 18$

9. $\frac{3}{4} - 9p = -\frac{3}{5}$

10. $-2\frac{2}{3} + \frac{d}{6} = \frac{2}{3}$

11. $-\frac{1}{4} + \frac{f}{8} = \frac{1}{2}$

12. $-\frac{2}{3} = 6 + \frac{v}{-3}$

Translate each equation into words, and then solve the equation.

13. $7 + \frac{n}{2} = 10$

14. $4w - 9 = -5$

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LESSON
12-2 **Practice C**
Solving Multi-Step Equations

Solve.

1. $-31x - 18 + 3x = 38$

2. $15n + 16 + 4n = 130$

3. $h - 48 + 17h = 42$

4. $-6g + 7g - 7 = 9$

5. $16 - 12a - 13a = -9$

6. $8y + 43 - 7y = -15$

7. $4(c - 3) - 6 = 10$

8. $3.8(s - 6) + 4.6 = -22$

9. $18(m + \frac{4}{9}) - 16 = 118$

10. $\frac{17u - 24}{18} = \frac{5}{9}$

11. $\frac{0.4n - 1}{7} = 5$

12. $\frac{18 - 4t}{0.5} = 20$

13. $\frac{1.4m - 4.5}{1.5} = 8.2$

14. $\frac{\frac{1}{3}s - 2}{5} = -2$

15. $\frac{5.6 - 2a + 1.4}{1.2} = 4.5$

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LESSON **Practice C**
12-3 *Solving Equations with Variables on Both Sides*

Group the terms with variables on one side of the equal sign and simplify.

1. $15t = 17 + 8t - 24$

2. $6a - 42 = 2a + a$

3. $6k - k = 27 - 4k$

4. $-5f + 40 = 5f + 30$

5. $\frac{9}{10}m - 28 = \frac{7}{10}m + 12$

6. $\frac{8}{15}x = 8 + \frac{2}{15}x - \frac{4}{15}x$

Solve. Check each answer.

7. $18r - 2 - 12r$
 $= -6r - 26$

8. $10 + 8c + 15$
 $= -2c - 40$

9. $-3w + 6$
 $= 8w + 9 - 2w$

10. $0.8a - 6 = -0.6a + 22$

11. $\frac{1}{2}n - 1\frac{5}{12} = \frac{2}{3}n - 2\frac{1}{6}$

12. $\frac{13}{15} - \frac{d}{5} = \frac{5}{6} + \frac{d}{3}$