

4-5 Two-Step Equations (continued)

Example 2 Solve $15 = \frac{s}{2} + 3$. Check the solution.

Solution

$$15 = \frac{s}{2} + 3$$

$$15 - 3 = \frac{s}{2} + 3 - 3 \quad \leftarrow \text{Subtract 3 from both sides.}$$

$$12 = \frac{s}{2}$$

$$12 \cdot 2 = \frac{s}{2} \cdot 2 \quad \leftarrow \text{Multiply both sides by 2.}$$

$$24 = s$$

The solution is 24.

Check:

$$15 = \frac{s}{2} + 3$$

$$15 \stackrel{?}{=} \frac{24}{2} + 3$$

$$15 \stackrel{?}{=} 12 + 3$$

$$15 = 15 \checkmark$$

Solve. Check each equation.

25. $\frac{m}{2} + 5 = -2$

26. $\frac{f}{-3} + 2 = 6$

27. $\frac{u}{4} + 6 = 2$

28. $\frac{a}{-5} - 3 = 4$

29. $9 = \frac{m}{3} + 7$

30. $\frac{y}{-4} - 2 = 10$

31. $4 = \frac{s}{-7} + 3$

32. $\frac{n}{7} - 5 = 0$

33. $5 = \frac{d}{3} - 4$

34. $\frac{m}{-4} - 3 = -4$

35. $4 = \frac{w}{-6} - 3$

36. $\frac{m}{5} + 6 = -1$

Spiral Review

37. Find the sum: $2\frac{7}{9} + 5\frac{1}{2}$ (Toolbox Skill 18)

38. Write 6.17×10^6 in decimal notation. (Lesson 2-10)

39. Solve: $\frac{k}{-3} + 7 = 2$ (Lesson 4-5)

40. Find the product mentally: $(4)(8)(6)(0)(5)$ (Lesson 1-7)