

**Day 17:** Write and solve two-step equations and review of expressions.

**Find the sum or difference.**

1.  $(4y + 3) - (y - 2)$

2.  $(3p - 7) + (5p - 6)$

6.  $(-2h + 1) + 2(3h - 4)$

7.  $(5b - 9) - 3(8 - 2b)$

**Factor out the coefficient of the variable.**

3.  $9x - 36$

4.  $\frac{1}{5}k + 15$

**Solve the equation. Check your solution.**

5.  $-5x - 2x + 3x = 9$

6.  $-5(m + 4) = 27$

7.  $-12(a - 2) = -50$

**In Exercises 8-10, write an equation. Then solve.**

8. You purchased \$132.49 worth of wheels and bearings for your skateboards.

The shop charges \$15 per board to install them. The total cost is \$192.49. How many skateboards will be repaired?

9. The perimeter of a triangle is 60 feet. One leg is 12 feet long. Of the two unknown sides, one of them is twice as long as the other. Find the lengths of the two unknown sides.

10. Sally picks seashells by the seashore. She lost 17 of them on her way home. She planned to fill 5 jars with the same amount of seashells in each. How many seashells did Sally pick?

a. You do not have enough information to solve this problem. The number of seashells in each jar is the same as the number portion of her street address, which is a 2-digit number. The first digit is 5. The last digit is 9 less than 3 times the first digit. How many seashells did Sally plan to put in each jar?

b. By working backwards, determine how many seashells Sally picked.

c. The 5 jars that Sally chose would not each hold that many seashells. In her search for a 6th jar, she discovered a few seashells in her pocket. What are possible values for the number of seashells in each of the 6 jars and the number of seashells discovered in her pocket, such that there are no seashells left over?