# Unit 4: Expressions and More Equations

**PRACTICE · SET 2**

Name: _____ Date: _____

*Simplify or solve each problem. Show your work and write each answer as an exact value (a number, a fraction like 3/4, or a count of solutions).*

**1.** Write an equivalent expression by combining like terms: 7x + 4 - 3x - 9

**Answer:** _____

**2.** Use the distributive property to expand: -3(2x - 6)

**Answer:** _____

**3.** Solve for x: x/4 = -5

**Answer:** _____

**4.** Solve for x: 3x - 8 = 13

**Answer:** _____

**5.** Solve for x: -5x + 2 = 17

**Answer:** _____

**6.** Solve for x (variable on both sides): 6x + 1 = 4x + 11

**Answer:** _____

**7.** Solve for x (variable on both sides): 9 - 3x = 5x - 7

**Answer:** _____

**8.** Solve for x: 2(x + 5) = 24

**Answer:** _____

**9.** Solve for x: 4(x - 1) = 2x + 6

**Answer:** _____

**10.** How many solutions does this equation have (0, 1, or infinitely many)? 3(2x - 1) = 6x - 3

**Answer:** _____

**11.** How many solutions does this equation have (0, 1, or infinitely many)? 5x + 8 = 5x - 3

**Answer:** _____

**12.** Solve for x and write the answer as a fraction in lowest terms: 4x + 3 = 10

**Answer:** _____