## **Unit 1 Problem Set B**

Lessons 1-5 through 1-9

## Do you know HOW?

**1.** Is the ordered pair (-3, 2) a solution to the equation 5x + 2y = -11? Show your work.

**2.** Is the ordered pair (-2, 7) a solution to the equation 18 - 4x = -2x - 12? Show your work.

**3.** Is the ordered pair (-1, 7) a solution to the equation 7x + y = y - 7? Show your work.

Evaluate each expression for m = 3 and n = -2.

$$4.2n + 6$$

5. 
$$-3m-n$$

**6.** 
$$(mn)^2$$

Simplify each expression.

**7.** 
$$6f^2g - 10f^2g$$
 **8.**  $-5 - 8$ 

11. 
$$\frac{2}{3}[9n - (-15)]$$

12. 
$$(-a+100)\frac{1}{5}$$

## Do you UNDERSTAND?

**13. Reasoning** Are  $12x^2y^3z$  and  $-45zy^3x^2$  like terms? Explain.

14. Writing Describe the process for adding two numbers with different signs. SHOW 47 + (-73) using "bags" and "split bags" of integer counters.

**15. Reasoning** Is the following statement true or false? If the sum of three numbers is negative, then all three numbers are negative. If false, give a counterexample.