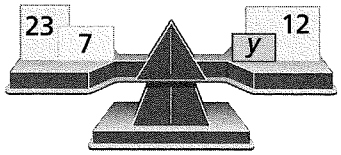
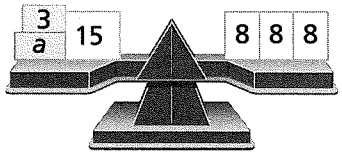
Name: _____

# 4-3 Additional Practice

Scan for Multimedia

**In 1 and 2, write an equation and solve for the variable.**

1. 


2. 


**In 3–8, solve each equation.**

3. $g - 8 = 25$

4. $25 + y = 42$

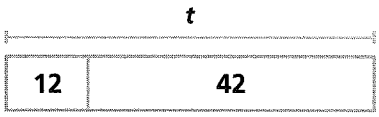
5. $r + 82 = 97$

6. $30 = m - 18$

7. $150 = e + 42$

8. $a - 51 = 12$

9. Only 12 students can be in the next school play. Let $t$ represent the number of students who tried out for the play. The number of students who tried out but did not get a role is 42.



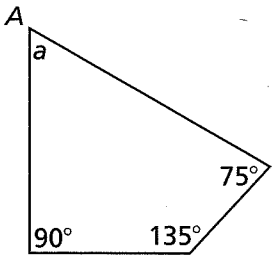

   a. Explain how the bar diagram and the equation $t - 12 = 42$ model this situation.

   b. Solve the equation to find the total number of students who tried out for the play.

10. Shree writes the equation $x + 7 = 28$. What should Shree do to find the value of $x$?

11. Krystal says that you need to add to solve the subtraction equation $y - 11 = 52$. Is Krystal correct? Explain.

12. Let $a$ equal the measure of angle $A$. The equation $360° = a + 90° + 135° + 75°$ represents the sum of the angles in the quadrilateral. Find the missing angle measure by solving the equation.




13. **Higher Order Thinking** In the equation $8x - 1 = 3x + 4$ the variable $x$ represents the same value. Which value of $x$ is the solution of the equation; $x = 0$, 1, 2, or 3? Explain.

14. This year, a rancher counted 225 horses on the range. This count is 22 fewer than last year. How many horses did the rancher count last year? Let $h$ be the number of horses counted last year. Solve $h - 22 = 225$ to find the number of horses counted last year.

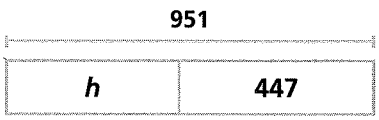
15. **Model with Math** Jorge hiked 15.4 miles on Monday. He hiked 20.6 miles on Tuesday, and the rest of the 50-mile trail on Wednesday. If $m$ represents the miles Jorge hiked on Wednesday, write an equation to show the total number of miles Jorge hiked and solve for $m$.

16. A volunteer made $m$ muffins for a bake sale. After selling 28 muffins, 21 muffins remained. The equation $m - 28 = 21$ represents the situation. What is the first step in writing an equivalent equation to solve $m - 28 = 21$?

17. **Construct Arguments** Explain how to solve for $n$ in the equation $n + 25 = 233$.

## Assessment Practice

18. Select all the equations that represent the bar diagram.




- ☐ $951 - h = 447$
- ☐ $447 + h = 951$
- ☐ $h - 447 = 951$
- ☐ $447h = 951$
- ☐ $951 \div h = 447$

19. Select all the equations for which $x = 5$ is the solution.

- ☐ $33 = 28 + x$
- ☐ $x + 11 = 16$
- ☐ $4 = x - 4$
- ☐ $24 = x + 19$
- ☐ $26 = x + 21$