# Lesson 26: One-Step Equations—Addition and Subtraction

# Classwork

#### **Exercise 1**

Solve each equation. Use both tape diagrams and algebraic methods for each problem. Use substitution to check your answers.

a. b + 9 = 15



26: One-Step Equations—Addition and Subtraction







#### b. 12 = 8 + c



Lesson 26:

26: One-Step Equations—Addition and Subtraction







## **Exercise 2**

Given the equation d - 5 = 7:

Demonstrate how to solve the equation using tape diagrams. a.

Demonstrate how to solve the equation algebraically. b.

Check your answer. с.



One-Step Equations—Addition and Subtraction







### Exercise 3

Solve each problem, and show your work. You may choose which method (tape diagrams or algebraically) you prefer. Check your answers after solving each problem.

a. e + 12 = 20



26: One-Step Equations—Addition and Subtraction







b. f - 10 = 15

c. g - 8 = 9



Lesson 26:

One-Step Equations—Addition and Subtraction





Lesson 26 6•4

## **Problem Set**

1. Find the solution to the equation below using tape diagrams. Check your answer.

m - 7 = 17

Find the solution of the equation below algebraically. Check your answer. 2.

n + 14 = 25

Find the solution of the equation below using tape diagrams. Check your answer. 3.

p + 8 = 18

Find the solution to the equation algebraically. Check your answer. 4.

$$g - 62 = 14$$

Find the solution to the equation using the method of your choice. Check your answer. 5.

$$m + 108 = 243$$

Identify the mistake in the problem below. Then, correct the mistake. 6.

$$p - 21 = 34$$
  
 $p - 21 - 21 = 34 - 21$   
 $p = 13$ 

7. Identify the mistake in the problem below. Then, correct the mistake.

$$q + 18 = 22$$
  
 $q + 18 - 18 = 22 + 18$   
 $q = 40$ 

8. Match the equation with the correct solution on the right.

. .

$$r + 10 = 22$$
 $r = 10$  $r - 15 = 5$  $r = 20$  $r - 18 = 14$  $r = 12$  $r + 5 = 15$  $r = 32$ 





