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.
$$b + 9 = 15$$

b.
$$12 = 8 + c$$



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Exercise 2

Given the equation d - 5 = 7:

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

b. Demonstrate how to solve the equation algebraically.

c. Check your answer.



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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.
$$e + 12 = 20$$

b.
$$f - 10 = 15$$

c.
$$g - 8 = 9$$



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Problem Set

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

$$m - 7 = 17$$

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

$$n + 14 = 25$$

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

$$p + 8 = 18$$

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

$$g - 62 = 14$$

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

$$m + 108 = 243$$

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

$$p-21 = 34$$

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

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.

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



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