

## 1-2 Reteach to Build Understanding

Solving Linear Equations

An equation is a mathematical sentence with an equal sign. If a sentence is true for a value of the variable in the equation, that value is called a solution of the equation. For x + 2 = 8, the solution is 6 because when 6 is substituted in the equation for x, the equation is true: 6 + 2 = 8.

1. Draw a line to match each lettered step for solving the equation x + 3(2x - 1) = 11 with a justification.

x + 3(2x -	1) = 11
------------	---------

- a.x + 6x 3 = 11Division Property of Equalityb.7x 3 = 11Combine Like Termsc.7x 3 + 3 = 11 + 3Distributive Propertyd. $\frac{7x}{7} = \frac{14}{7}$ Addition Property of Equalityx = 2
- 2. Describe and correct the error Cameron made when solving the equation 6x 2(x 5) = -2. Place an X next to the incorrect step and describe his error.



3. In the table below, show the solution of 7x - 10 + 4x = 34 by completing the missing expressions and equations in the steps.

Step	Reason
7x-10+4x=34	Given equation
= 34	Combine like terms.
= 34 + 10	Addition property of equality.
	Simplify.
	Division property of equality.
<u>x =</u>	Simplify.