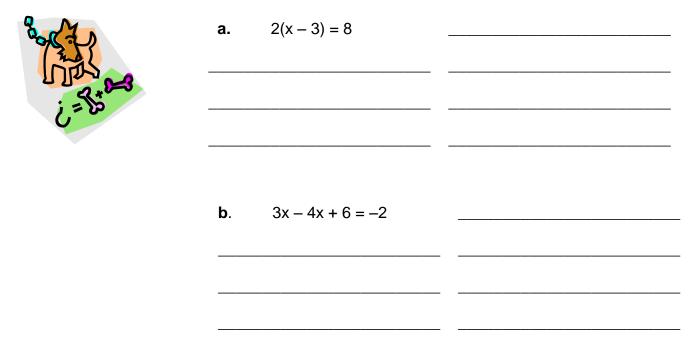
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Hints for solving multi step equations:

- Use the Distributive Property if there are parentheses on ONE side of an equation.
- If there are like terms on ONE side of an equation, combine them.
- Finally, use the properties of equality to solve the equation.

**Example 1**: Solve each multi-step equation. Justify each step with a reason.



**Example 2**: Solve the equations by finding a common denominator first. Then use properties of equality to simplify.

**a.** 
$$\frac{2x}{3} + \frac{x}{2} = 7$$
 **b.**  $\frac{m}{4} + \frac{m}{2} = \frac{5}{8}$ 

**Example 3**: Solve each equation. Use the Addition or Subtraction Properties of Equality to GATHER VARIABLE TERMS on one side of the equation.

**a.** 6x + 3 = 8x − 21

**b.** 3(x-4) = 2x + 1

## **Summary for Solving Equations:**

Step 1	Use the Distributive Property to remove parentheses.
Step 2	Gather and combine like terms on each side.
Step 3	Undo addition or subtraction.
Step 4	Undo multiplication or division.

Homework: Page 91 #12 – 15 all, 21 – 25 all, and page 98 # 3 – 15 odd

YOU MUST SHOW ALL WORK FOR FULL CREDIT!