

Solve Equations and Explain Balance



Name: _____ Date: _____

Use the material to work through each task. Show the requested response.

Keep both sides equal

To solve $3x + 2 = 14$, subtract 2 from both sides, then divide both sides by 3. This gives $x = 4$.

1. Solve $4x + 3 = 23$.

2. Solve $2x - 7 = 11$.

3. Solve $x/3 + 4 = 9$.

4. Check whether $x = 6$ solves $5x - 4 = 26$.

5. An invented ticket has a \$3 fee plus \$4 per game. The total is \$23. Write and solve an equation.

6. Why must the same operation be performed on both sides?
