

Solve Equations and Explain Balance



Use the matching sheet ID when checking answers.

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

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

Answer: $x = 5$

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

Answer: $x = 9$

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

Answer: $x = 15$

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

Answer: yes; $5 \times 6 - 4 = 26$

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

Answer: $4g + 3 = 23$; $g = 5$

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

Look for:

- Explains preservation of equality.

One possible response: To preserve equality and the same solution.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.