

The Balance Scale Quest

Expressions & One-Step Equations

Name: _____

Date: _____

Circle the best answer for 1 and 2. Answer 3 in complete sentences.

1. Solve: $x - 15 = 22$

- (A) $x = 7$
- (B) $x = 37$
- (C) $x = 330$
- (D) $x = 17$

2. Which operation solves $y \div 6 = 4$?

- (A) Divide both sides by 6
- (B) Add 6 to both sides
- (C) Multiply both sides by 6
- (D) Subtract 6

Read: Liam had some money. He spent \$18 on a video game and has \$27 left.

3. Write an equation and solve it to find how much money Liam started with.

Use Solve-Show-Explain: Solve, Show, Explain.

The Balance Scale Quest: Exit Ticket

Total: 5 points. Mastery: 4 or more.

#	Answer	Points
1	(B) $x = 37$	1 point
2	(C) Multiply both sides by 6	1 point
3	Solve: \$45. Show: $m - 18 = 27$; $m - 18 + 18 = 27 + 18$; $m = 45$. Check: $45 - 18 = 27$. Explain: I used m for the money he started with. He spent 18, so I subtracted. To get m alone, I used the inverse operation and added 18 to both sides, which keeps the equation balanced. (Answer: 45 dollars)	3 points: Correct answer \$45; Equation $m - 18 = 27$ with inverse operation; Explains inverse operation and checks.