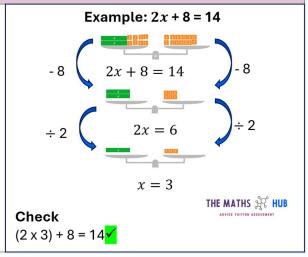
Solving Two-Step Equations On a Balance Scale

Solving an equation means finding the value of the unknown variable (e.g., x). One way to understand solving equations is by using a balance scale approach. (Images were created using free virtual manipulatives available at Polypad.com.)

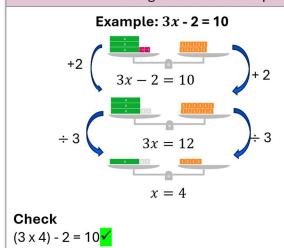
To solve a two-step equation on a balance scale:

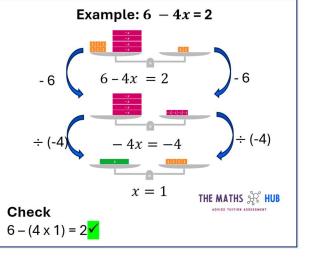
- 1. Model the equation on a balance scale.
- 2. Use the inverse operations to isolate x on one side of the scale. Keep the scale balanced by doing the same operation on both sides.
- 3. Check your answer by substituting the value of *x* back into the original equation. If both sides are equal, it's correct.
- 4. State your final answer.



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