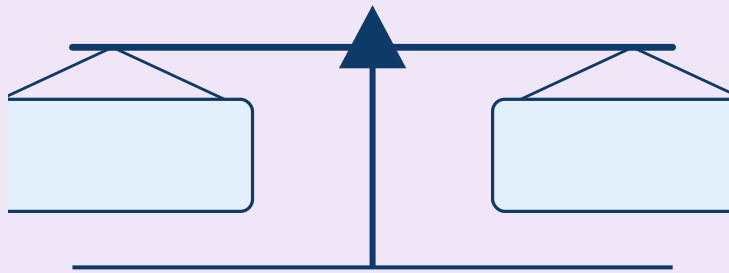


SOLVE ON THE BALANCE SCALES

- 1 Start with $x + 5 = 12$.
- 2 Subtract 5 from both sides to get $x = 7$.
- 3 Check: $7 + 5 = 12$ - it balances.

WARM-UP

Draw balance scales to make both sides equal.



1. Draw $x + 4 = 9$ with 4 loose counters on left and 9 on right.
2. Draw $3x = 12$ with three bags on left and 12 counters on right.
3. Draw $x - 9 = 6$ with bag on left and 6 counters on right after adding 9 back.

PRACTICE

- 1 In the game, a mystery bag plus 4 counters balances 9 counters on the scales.

$$x + 4 = \underline{\quad}$$

- 2 After play, the bag minus 5 counters balances 7 counters.

$$x - 5 = \underline{\quad}$$

- 3 Three bags together balance 12 counters in the game.

$$3x = \underline{\quad}$$

- 4 The bag with 7 extra play tokens balances 12 tokens total.

$$x + 7 = \underline{\quad}$$

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
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| <p>a. Solving $x + 6 = 10$ by subtracting 6 from both sides gives the correct x. ☐</p> <p>b. Adding or subtracting the same number on both sides solves a one-step equation. ☐</p> | <p>c. Putting the value back into the original equation shows if it is right. ☐</p> <p>d. Dividing both sides by the same number solves $x + 3 = 12$. ☐</p> |
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