One-step addition/subtraction equations

6 questions | 14 marks

Equivalent correct methods earn the corresponding marks.

1. Solve $x + 5 = 17$. [2 marks]

Subtract 5 from both sides.

$x = 17 - 5 = 12$.

Check: $12 + 5 = 17$.

Answer: $x = 12$

2. Solve $p - 7 = 14$. [2 marks]

Add 7 to both sides.

$p = 14 + 7 = 21$.

Check: $21 - 7 = 14$.

Answer: $p = 21$

3. Solve $a + 18 = 45$. [2 marks]

Subtract 18 from both sides.

$a = 45 - 18 = 27$.

Check: $27 + 18 = 45$.

Answer: $a = 27$

4. Solve $n - 26 = 19$. [2 marks]

Add 26 to both sides.

$n = 19 + 26 = 45$.

Check: $45 - 26 = 19$.

Answer: $n = 45$

5. A box holds b pencils. Adding 8 pencils gives 30 pencils. Write and solve an equation. [3 marks]

The starting number plus 8 equals 30.

Subtract 8 from both sides: $b = 30 - 8 = 22$.

Check: $22 + 8 = 30$.

Answer: $b + 8 = 30$; $b = 22$ pencils.

6. Noah had s stickers. He gave away 13 and has 24 left. Find s using an equation. [3 marks]

Add 13 to both sides of $s - 13 = 24$.

$s = 24 + 13 = 37$.

Check: $37 - 13 = 24$.

Answer: $s - 13 = 24$; $s = 37$ stickers.