

EQUATIONS: ADDITION AND SUBTRACTION



To solve this addition equation, subtract 4 from both sides.

$$\begin{aligned}
 s + 4 &= 6 \\
 s + 4 - 4 &= 6 - 4 \\
 s + 0 &= 2 \\
 s &= 2
 \end{aligned}$$

To solve this subtraction equation, add 6 to both sides.

$$\begin{aligned}
 s - 6 &= 10 \\
 s - 6 + 6 &= 10 + 6 \\
 s + 0 &= 16 \\
 s &= 16
 \end{aligned}$$

Complete. Write a word or number in each blank to tell how to solve the equation.

- To solve $x + 8 = 10$, _____ 8 _____ both sides.
- To solve $y - 9 = 8$, _____ 9 _____ both sides.
- To solve $7 + z = 12$, subtract _____ from both sides.
- To solve $k - 14 = 2$, add _____ to both sides.

Use the inverse operation. Solve the equation.

5. $x + 6 = 12$

$$\begin{aligned}
 x + 6 - \underline{\quad} &= 12 - \underline{\quad} \\
 x + \underline{\quad} &= \underline{\quad} \\
 x &= \underline{\quad}
 \end{aligned}$$

6. $y - 14 = 8$

$$\begin{aligned}
 y - 14 + \underline{\quad} &= 8 + \underline{\quad} \\
 y + \underline{\quad} &= \underline{\quad} \\
 y &= \underline{\quad}
 \end{aligned}$$

Solve the equations. Check your answers.

- $y - 23 = 42$ _____
- $n + 14 = 58$ _____
- $x + 62 = 75$ _____
- $a + 55 = 83$ _____

Equations: Addition and Subtraction

Answer Key

1. subtract, from
2. add, to
3. 7
4. 14
5. 6, 6; 0, 6; 6
6. 14, 14; 0, 22; 22
7. 65
8. 44
9. 13
10. 28

