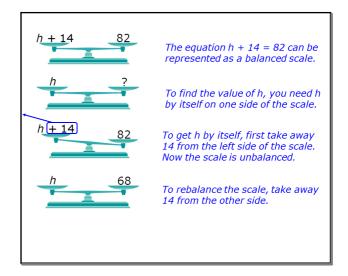
2.5 Solving Addition Equations

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Taking away 14 from both sides of the scale is the same as subtracting 14 from both sides of the equation.

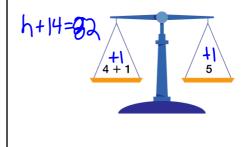
$$h + 14 = 82$$
 $-14 = -14$
 $h = 68$

Subtraction is the inverse, or opposite, of addition. If an equation contains addition, solve it by subtracting from both sides to "undo" the addition.

Think of equations like a balance scale.

Both sides must have the same quantity to be balanced.

If you add something to one side, you have to add the same thing to the other side.



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Solve the equation. Check your answer.

$$x + 87 = 152$$

$$x + 87 = 152$$
 87 is added to x.
 $\frac{-87}{x} = \frac{-87}{65}$ Subtract 87 from both sides to undo the addition.

Check x + 87 = 152 Substitute 65 for x in the 65 + 87
$$\stackrel{?}{=}$$
 152 equation.
152 $\stackrel{?}{=}$ 152 ✓ 65 is the solution.

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Solve the equation. Check your answer. 72=18+54 72=72

Solve the equation. Check your answer.

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Solve the equation. Check your answer. 68 = 24 + q

68=24+44 68=68 \ 5

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Solve the equation. Check your answer.

1.
$$x + 15 = \frac{1}{12}$$

 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$
 $-\frac{1}{15}$

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Solve the equation. Check your answer.

57 2.
$$81 = x + 84$$
 $x+24$
 $81 = -24$ -24
 $57 = x$
 $81 = 81 \sqrt{x} = 57$

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Solve the equation. Check your answer.

Solve the equation. Check your answer.

Mar 13-11:31 AM Mar 13-11:31 AM