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Solving One-Step Equations: Addition and Subtraction

How can you get the variable alone in an addition equation?

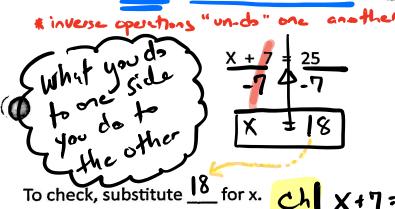
Ex: Greg has x plastic figures. After he bought 7 more figures, he had 25. How many plastic figures did Greg have?

$$X + 7 = 25$$

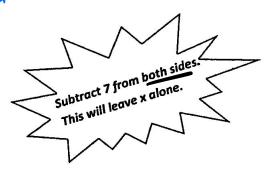
To get the variable, x, alone, use the inverse operation.

What is the inverse operation of addition?



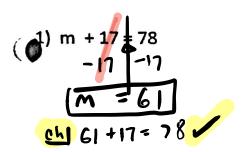


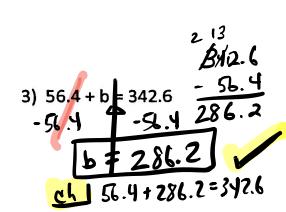
To check, substitute $\frac{18}{18}$ for x. $\frac{18}{18} + 7 = 25$



* To keep an equation balanced, the <u>Subtraction Property of Equality</u> allows you to subtract the same amount from both sides of the equation.

You try:





How can you get the variable alone in a subtraction equation?

Ex: Nina buys lunch for herself and her sister. She pays \$7.00. Nina has \$5.00 left over. Solve using the equation b - \$7.00 = \$5.00 to find out how much money Nina started with.



To get the variable, b, alone, use the inverse operation.

What is the inverse operation of subtraction? addition

Add \$7.00 to both sides.
This will leave b alone.

To check, substitute b for 12.

* To keep an equation balanced, the <u>Addition Property of Equality</u> allows you to add the same amount to both sides of an equation.

You try:

