

Name _____

Date _____

Single Step Algebra - Step-by-Step Lesson

Solve for the variable b.

$$37 = 9 + b$$

**Explanation:**

We have to find the value of b. The best way to approach this is to try to get that variable by itself. One thing to remember is that you can do anything to an equation that you want as long as you do the same thing to both sides of the equal sign.

When we look at the equation:

$$37 = 9 + b$$

we ask ourselves how to get b by itself. Right now it is being added to the integer 9. We know that addition and subtraction cancel one another out. We can get rid of the 9 by subtracting 9 from both sides.

$$37 = 9 + b$$

$$\underline{-9} \quad \underline{-9}$$

$$37 - 9 = b \quad (\text{After subtracting by 9, we are left with this.})$$

$$28 = b$$

So, the answer is 28.

