

## What are Equations?

Equations are like math sentences that show two things are equal. They usually have an equal sign (=) in the middle. For example, in the equation  $3 + 2 = 5$ , it tells us that when we add 3 and 2 together, we get 5.

## Step-by-Step Guide to Solve Simple Equations

### 1. Basic Addition Equations

Let's look at a simple equation:  $x + 3 = 5$ . Here,  $x$  is a number we don't know yet. Our goal is to find out what  $x$  is.

- **Step 1:** Think about what number plus 3 equals 5.
- **Step 2:** To find  $x$ , you can take away 3 from both sides of the equation:
  - So we have:  $x + 3 - 3 = 5 - 3$
  - This simplifies to:  $x = 2$

### 2. Basic Subtraction Equations

Now, let's look at a subtraction equation:  $y - 4 = 1$ .

- **Step 1:** We want to find out what  $y$  is. Think about what number minus 4 equals 1.
- **Step 2:** Add 4 to both sides of the equation:
  - So we have:  $y - 4 + 4 = 1 + 4$
  - This simplifies to:  $y = 5$

## Practice Problems

Try solving these equations on your own!

- **a)**  $x + 1 = 3$
- **b)**  $y - 2 = 0$
- **c)**  $z + 5 = 9$

## Conclusion

Equations are fun and help us understand how numbers work together! With practice, you'll get better at solving them. Remember, the key is to do the same operation on both sides to keep the equation balanced. Enjoy solving!