Topic: One-Step Equations

Classwork _01_

Inverse operations:

Directions: Fill in the blanks below with the appropriate operation.

Operations   Inverse

Addition ⟶ _____

Subtraction ⟶ _____

Multiplication ⟶ _____

Division ⟶ _____

What are equations?

An **equation** is a _____ that tells you _____
expressions are _____. Equation has a _____ sign (=).

What is the difference of an expression and equation?

_____

_____

Model

Example #1	Goal: To get the variable alone.	Check
$X + 5 = 9$	1. Write the equation. 2. Identify the operation. 3. Perform the inverse operation to both sides. 4. Simplify Check	
Example #2 $5 + c = 12$	Goal: To get the variable alone. 1. Write the equation. 2. Identify the operation. 3. Perform the inverse operation to both sides. 4. Simplify Check	Check
Example #3 $C - 5 = 12$	Goal: To get the variable alone. 5. Write the equation. 6. Identify the operation. 7. Perform the inverse operation to both sides. 8. Simplify Check	Check
Example # 4 $23 = b - 6$	Goal: To get the variable alone. 9. Write the equation. 10. Identify the operation. 11. Perform the inverse operation to both sides. 12. Simplify 13. Check	Check

| Example # 5

$16 = -9 + k$ | Goal: To get the variable alone.

1. Write the equation.
2. Identify the operation.
3. Perform the inverse operation to both sides.
4. Simplify
5. Check | Check |
|---|---|---|
| Example #6

$21 = x - 4.6$ | Goal: To get the variable alone.

1. Write the equation.
2. Identify the operation.
3. Perform the inverse operation to both sides.
4. Simplify
5. Check | |
| Example #7:

$x - 8.9 = 16.8$ | Goal: To get the variable alone.

1. Write the equation.
2. Identify the operation.
3. Perform the inverse operation to both sides.
4. Simplify
5. Check | Check your answer. |
| Example #8:

$x + 3.02 = 16.905$ | Goal: To get the variable alone.

1. Write the equation.
2. Identify the operation.
3. Perform the inverse operation to both sides.
4. Simplify
5. Check | Check your answer. |