# Solving One-Step Equations

## Inverse Operations:

Addition ⟷ Subtraction

Multiplication ⟷ Division

Using Inverse Operations to Solve Equations:

1) Identify the operation, then perform the opposite

2) Whatever you do to one side of the equation, you must do to the other

3) Check your answer!

Ex 1: $p + 5 = -10$

$-5 \quad -5$

$p + 0 = -15$

$\boxed{p = -15}$

check!

$-15 + 5 = -10$

$-10 = -10$ ✓

True Statement!
Correct answer

Ex 2: $\frac{-5t}{-5} = \frac{60}{-5}$

$$t = -12$$

check! $(-5)(-12) = 60$

$60 = 60$ ✓ Correct!

Ex 3: $16 = \frac{-4}{3}x$

$\frac{\left(\frac{-4}{3}\right)x}{\frac{-4}{3}} = \frac{16}{\frac{-4}{3}}$

$$x = -12$$

check! $\left(\frac{-4}{3}\right)(-12) = 16$

$16 = 16$ ✓ Correct!