## 3.6: Solving Polynomial Equations with Fractional Coefficients (Day 1)

## Warm Up

$-2(n+11)+4=12$

$$
3(2 h-5)+4(3 h+2)=11
$$

Example
$\frac{x}{2}-2=-\frac{x}{3}$

## Steps

## 1) Multiply EACH term by the LOWEST COMMON DENOMINATOR.

2) Expand each term (watch out for negative signs - treat each term as though in brackets).
3) Simplify each side, then isolate the variable.

## Examples

1. Find the value of the variable:
a) $3 y=\frac{12}{4}+\frac{2 y}{5}$
b) $\frac{3(2 y-1)}{5}=\frac{y}{10}$
c) $\frac{-2(n+11)}{4}+\frac{4}{5}=\frac{12}{5}$
