

Example 3: $\frac{x+3}{2} = 9$

$\frac{x}{2} = 6$ (after subtracting 3 from both sides)

$x = 12$ (after multiplying both sides by 2)

Example 4: $\frac{x-7}{-4} = 1$

$x-7 = -4$ (after multiplying both sides by -4)

$x = 3$ (after adding 7 to both sides)

Verification for Example 3:

$$\frac{12}{2} + 3 = 9$$

$$6 + 3 = 9$$

$$9 = 9$$

Verification for Example 4:

$$\frac{3-7}{-4} = 1$$

$$\frac{-4}{-4} = 1$$

$$1 = 1$$