



Solving Multi-Step Equations

* **Chunk the Operation with the number/variable.**

Chunk, label, solve and check one step at a time

$$\text{Ex1) } 1 - 3x = -8$$

$$\text{Ex2) } 20 + c = 4c - 7$$

$$\text{Ex3) } 24 - 3m = 5m$$

$$\text{Ex4) } 9 - 3k = 17 - 2k$$

$$\text{Ex5) } 5z - 2 = 2(3z - 4)$$

$$\text{Ex6) } 3 - 4a = \frac{1}{2}(6a - 4)$$

$$\text{Ex7) } \frac{3}{4}x + 2 = \frac{1}{4}x + 1$$

$$\text{Ex8) } \frac{3}{8} - \frac{1}{4}x = \frac{1}{2}x - \frac{3}{4}$$

$$\text{Ex9) } 6.8 + 5.4x = 4.6x + 2.8$$

*Special Cases

$x = 0$	one answer	answer is 0
$3 = 3$	true	all numbers
$3 = 2$	false	no solution

Ex11) $3x = 3(x + 4)$

Ex12) $2x + 10 = 2(x + 5)$

Ex13) $7w + 1 = 8w + 1$