

## Tier A

## Solving Equations - Variable on Both Sides

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Solve the equations.

(1)  $x - 12 = -3x + 8$

(2)  $x - 9 = 11 - 3x$

(3)  $x - 11 = -2x + 7$

(4)  $-7 + x = 11 - 2x$

(5)  $3x - 10 = -2x + 5$

(6)  $x - 8 = 8 - 3x$

(7)  $-4 + 2x = 11 - x$

(8)  $-11 + 2x = -3x + 4$

(9)  $2x - 11 = 10 - x$

(10)  $-9 + 3x = 11 - 2x$

(11)  $3x - 10 = -x + 10$

(12)  $-3 - x = -3x + 3$

(13)  $-9 + 3x = 11 - x$

(14)  $3x - 10 = 10 - x$

(15)  $3x - 28 = -2x + 7$

(16)  $-4 - 2x = 3 - 3x$

(17)  $-11 + x = -2x + 7$

(18)  $3x - 7 = x + 5$

# Tier B

## Solving Equations - Variable on Both Sides



Solve the equations.

(1)  $-19 - 2x = 5 - 4x$

(2)  $3x - 38 = 52 - 2x$

(3)  $-22 - 6x = -8x + 12$

(4)  $-14 - x = -3x + 12$

(5)  $-65 + 2x = -4x + 31$

(6)  $6x - 54 = 23 - x$

(7)  $x - 21 = 43 - 3x$

(8)  $-39 + 5x = -2x + 52$

(9)  $-74 - 3x = 22 - 9x$

(10)  $4x - 91 = 107 - 5x$

(11)  $-115 + 9x = 61 - 7x$

(12)  $-66 + 5x = 121 - 6x$

# Tier C

## Solving Equations- Variable on Both Sides



Solve the equations.

(1)  $-202 + 9x = -4x + 136$

(2)  $-89 - 2x = 120 + 9x$

(3)  $-64 + 5x = -x + 62$

(4)  $-4x - 109 = 35 - 10x$

(5)  $13x - 53 = 9x + 27$

(6)  $-2x - 73 = 111 - 10x$

(7)  $x - 36 = 40 + 5x$

(8)  $-226 - 4x = -13x + 98$

(9)  $-85 + 9x = 69 + 2x$

(10)  $-x - 72 = -7x + 144$

(11)  $-154 - 6x = 84 + x$

(12)  $-21 - 5x = 14 - 6x$