Mixed Equations

Name: _____   **Date:** _____

👉 Solve the equations.

(1) $^-6x - 44 = 14 - 4x$

(2) $^-10x + 100 = {}^-54 + x$

(3) $88 - 6x = 4x - 102$

(4) $53 + 11x = 3x - 43$

(5) $^-5x - 35 = 17 - 7x$

(6) $^-17 + 5x = 8x + 34$

(7) $^-93 + 7x = x + 69$

(8) $^-21 + x = {}^-4x + 39$

(9) $6x - 35 = 10x + 65$

(10) $^-132 + 4x = {}^-5x + 84$

(11) $2x + 30 = 7x - 100$

(12) $^-30 - 5x = 20 - 3x$

Mixed Equations
A N S W E R   K E Y

👉 Solve the equations.

(1) $^-6x - 44 = 14 - 4x$
$^-44 - 2x = 14$
$^-2x = 58$
$x = ^-29$

(2) $^-10x + 100 = ^-54 + x$
$100 = ^-54 + 11x$
$154 = 11x$
$14 = x$

(3) $88 - 6x = 4x - 102$
$88 = ^-102 + 10x$
$190 = 10x$
$19 = x$

(4) $53 + 11x = 3x - 43$
$53 = ^-43 - 8x$
$96 = ^-8x$
$^-12 = x$

(5) $^-5x - 35 = 17 - 7x$
$^-35 + 2x = 17$
$2x = 52$
$x = 26$

(6) $^-17 + 5x = 8x + 34$
$^-17 - 3x = 34$
$^-3x = 51$
$x = ^-17$

(7) $^-93 + 7x = x + 69$
$^-93 + 6x = 69$
$6x = 162$
$x = 27$

(8) $^-21 + x = ^-4x + 39$
$^-21 + 5x = 39$
$5x = 60$
$x = 12$

(9) $6x - 35 = 10x + 65$
$^-35 - 4x = 65$
$^-4x = 100$
$x = ^-25$

(10) $^-132 + 4x = ^-5x + 84$
$^-132 + 9x = 84$
$9x = 216$
$x = 24$

(11) $2x + 30 = 7x - 100$
$30 = ^-100 + 5x$
$130 = 5x$
$26 = x$

(12) $^-30 - 5x = 20 - 3x$
$^-30 - 2x = 20$
$^-2x = 50$
$x = ^-25$