

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



Solve the equations.

(1)  $33 = -111 - 8x$

(2)  $3x - 3(-5x - 18) = -90$

(3)  $10 = \frac{7x + 10}{-6}$

(4)  $224 = -3x + 4(-3x + 11)$

(5)  $-42 = 118 - 10x$

(6)  $-7 = \frac{-6x + 4}{8}$

(7)  $7x - 44 = 11x + 56$

(8)  $-5 = \frac{8x + 10}{-10}$

(9)  $-210 = -6x - 6(x + 15)$

(10)  $50 + 2x = -3x - 35$

# Mixed Equations ANSWER KEY



Solve the equations.

$$(1) \quad 33 = -111 - 8x$$

$$144 = -8x$$

$$-18 = x$$

$$(2) \quad 3x - 3(-5x - 18) = -90$$

$$3x + 15x + 54 = -90$$

$$18x + 54 = -90$$

$$18x = -144$$

$$x = -8$$

$$(3) \quad 10 = \frac{7x + 10}{-6}$$

$$-60 = 7x + 10$$

$$-70 = 7x$$

$$-10 = x$$

$$(4) \quad 224 = -3x + 4(-3x + 11)$$

$$224 = -3x - 12x + 44$$

$$224 = -15x + 44$$

$$180 = -15x$$

$$-12 = x$$

$$(5) \quad -42 = 118 - 10x$$

$$-160 = -10x$$

$$16 = x$$

$$(6) \quad -7 = \frac{-6x + 4}{8}$$

$$-56 = -6x + 4$$

$$-60 = -6x$$

$$10 = x$$

$$(7) \quad 7x - 44 = 11x + 56$$

$$-44 - 4x = 56$$

$$-4x = 100$$

$$x = -25$$

$$(8) \quad -5 = \frac{8x + 10}{-10}$$

$$50 = 8x + 10$$

$$40 = 8x$$

$$5 = x$$

$$(9) \quad -210 = -6x - 6(x + 15)$$

$$-210 = -6x - 6x - 90$$

$$-210 = -12x - 90$$

$$-120 = -12x$$

$$10 = x$$

$$(10) \quad 50 + 2x = -3x - 35$$

$$50 = -35 - 5x$$

$$85 = -5x$$

$$-17 = x$$