

Name: _____ Date: _____



Solve the equations.

(1) $\frac{7x + 11}{-6} = 11$

(2) $-5x - 4(-4x + 11) = -176$

(3) $-137 = 3x - 7(-x + 11)$

(4) $255 = -5(-8x + 13)$

(5) $-315 = -9(-7x - 7)$

(6) $336 = -8(-6x - 12)$

(7) $-564 = -6(-9x - 5)$

(8) $3 = \frac{x}{-13} - 1$

(9) $-505 = -5(-9x + 11)$

(10) $-5x + 32 = -48$

Mixed Equations ANSWER KEY



Solve the equations.

$$(1) \quad \frac{7x + 11}{-6} = 11$$

$$7x + 11 = -66$$

$$7x = -77$$

$$x = -11$$

$$(2) \quad -5x - 4(-4x + 11) = -176$$

$$-5x + 16x - 44 = -176$$

$$11x - 44 = -176$$

$$11x = -132$$

$$x = -12$$

$$(3) \quad -137 = 3x - 7(-x + 11)$$

$$-137 = 3x + 7x - 77$$

$$-137 = 10x - 77$$

$$-60 = 10x$$

$$-6 = x$$

$$(4) \quad 255 = -5(-8x + 13)$$

$$-51 = -8x + 13$$

$$-64 = -8x$$

$$8 = x$$

$$(5) \quad -315 = -9(-7x - 7)$$

$$35 = -7x - 7$$

$$42 = -7x$$

$$-6 = x$$

$$(6) \quad 336 = -8(-6x - 12)$$

$$-42 = -6x - 12$$

$$-30 = -6x$$

$$5 = x$$

$$(7) \quad -564 = -6(-9x - 5)$$

$$94 = -9x - 5$$

$$99 = -9x$$

$$-11 = x$$

$$(8) \quad 3 = \frac{x}{-13} - 1$$

$$4 = \frac{x}{-13}$$

$$-52 = x$$

$$(9) \quad -505 = -5(-9x + 11)$$

$$101 = -9x + 11$$

$$90 = -9x$$

$$-10 = x$$

$$(10) \quad -5x + 32 = -48$$

$$-5x = -80$$

$$x = 16$$