

Mixed Equations

Name: _____ Date: _____



Solve the equations.

(1) $-167 + 14x = 5x + 148$

(2) $-7x - 2(4x + 20) = -175$

(3) $\frac{11x - 5}{-6} = 21$

(4) $6(-8x + 11) = -222$

(5) $-68 + 8x = 20 + 4x$

(6) $-6(-5x - 6) = -354$

(7) $-158 + 14x = 92 + 4x$

(8) $5x - 3(-3x + 17) = -191$

(9) $-109 - 3x = 9x + 143$

(10) $-14 = \frac{-9x + 4}{-8}$

(11) $-11 = \frac{-5x - 15}{5}$

(12) $-235 + 8x = -6x + 87$

Mixed Equations ANSWER KEY



Solve the equations.

$$(1) \quad -167 + 14x = 5x + 148$$

$$-167 + 9x = 148$$

$$9x = 315$$

$$x = 35$$

$$(2) \quad -7x - 2(4x + 20) = -175$$

$$-7x - 8x - 40 = -175$$

$$-15x - 40 = -175$$

$$-15x = -135$$

$$x = 9$$

$$(3) \quad \frac{11x - 5}{-6} = 21$$

$$11x - 5 = -126$$

$$11x = -121$$

$$x = -11$$

$$(4) \quad 6(-8x + 11) = -222$$

$$-8x + 11 = -37$$

$$-8x = -48$$

$$x = 6$$

$$(5) \quad -68 + 8x = 20 + 4x$$

$$-68 + 4x = 20$$

$$4x = 88$$

$$x = 22$$

$$(6) \quad -6(-5x - 6) = -354$$

$$-5x - 6 = 59$$

$$-5x = 65$$

$$x = -13$$

$$(7) \quad -158 + 14x = 92 + 4x$$

$$-158 + 10x = 92$$

$$10x = 250$$

$$x = 25$$

$$(8) \quad 5x - 3(-3x + 17) = -191$$

$$5x + 9x - 51 = -191$$

$$14x - 51 = -191$$

$$14x = -140$$

$$x = -10$$

$$(9) \quad -109 - 3x = 9x + 143$$

$$-109 - 12x = 143$$

$$-12x = 252$$

$$x = -21$$

$$(10) \quad -14 = \frac{-9x + 4}{-8}$$

$$112 = -9x + 4$$

$$108 = -9x$$

$$-12 = x$$

$$(11) \quad -11 = \frac{-5x - 15}{5}$$

$$-55 = -5x - 15$$

$$-40 = -5x$$

$$8 = x$$

$$(12) \quad -235 + 8x = -6x + 87$$

$$-235 + 14x = 87$$

$$14x = 322$$

$$x = 23$$