

Mixed Equations

Name: _____ Date: _____



Solve the equations.

$$(1) \quad 5 = \frac{6x - 18}{6}$$

$$(2) \quad \frac{x}{5} - 5 = 8$$

$$(3) \quad 18 = -6x + 2(2x + 16)$$

$$(4) \quad 1 = \frac{x}{9} - 4$$

$$(5) \quad 7 = 2 + \frac{x}{13}$$

$$(6) \quad 570 = 6(8x + 7)$$

$$(7) \quad 110 = 2x - 5(-3x + 12)$$

$$(8) \quad -7x - 4(-2x - 4) = 26$$

Mixed Equations ANSWER KEY



Solve the equations.

$$(1) \quad 5 = \frac{6x - 18}{6}$$

$$30 = 6x - 18$$

$$48 = 6x$$

$$8 = x$$

$$(2) \quad \frac{x}{5} - 5 = 8$$

$$\frac{x}{5} = 13$$

$$x = 65$$

$$(3) \quad 18 = -6x + 2(2x + 16)$$

$$18 = -6x + 4x + 32$$

$$18 = -2x + 32$$

$$-14 = -2x$$

$$7 = x$$

$$(4) \quad 1 = \frac{x}{9} - 4$$

$$5 = \frac{x}{9}$$

$$45 = x$$

$$(5) \quad 7 = 2 + \frac{x}{13}$$

$$5 = \frac{x}{13}$$

$$65 = x$$

$$(6) \quad 570 = 6(8x + 7)$$

$$95 = 8x + 7$$

$$88 = 8x$$

$$11 = x$$

$$(7) \quad 110 = 2x - 5(-3x + 12)$$

$$110 = 2x + 15x - 60$$

$$110 = 17x - 60$$

$$170 = 17x$$

$$10 = x$$

$$(8) \quad -7x - 4(-2x - 4) = 26$$

$$-7x + 8x + 16 = 26$$

$$x + 16 = 26$$

$$x = 10$$

$$x = 10$$