

# Solving Algebraic Equations

Name: \_\_\_\_\_ Score: \_\_\_\_\_

Solve for each variable.

$$6x = 18$$

$$2n + 2 = 22$$

$$5c = 20$$

$$4e + 2 = 18$$

$$3b = 12$$

$$-2t + 3 = -3$$

$$2q = 30$$

$$9v - 20 = -29$$

$$-2q = -20$$

$$-6e + 9 = 21$$

$$-4y - 2 = -22$$

$$h - 3 = 4$$

$$2b - 2 = 22$$

$$2n - 8 = 42$$

$$-3f + 4 = -11$$

$$-3x = 15$$

$$-2u + 10 = 50$$

$$5m = -10$$

$$3y + 2 = 11$$

$$2c + 8 = 20$$

$$2y - 4 = -20$$

# Answers

Solve for each variable.

$$6x = 18$$

$$x = 3$$

$$2n + 2 = 22$$

$$n = 10$$

$$5c = 20$$

$$c = 4$$

$$4e + 2 = 18$$

$$e = 4$$

$$3b = 12$$

$$b = 4$$

$$-2t + 3 = -3$$

$$t = 3$$

$$2q = 30$$

$$q = 15$$

$$9v - 20 = -29$$

$$v = -1$$

$$-2q = -20$$

$$q = 10$$

$$-6e + 9 = 21$$

$$e = -2$$

$$-4y - 2 = -22$$

$$y = 5$$

$$h - 3 = 4$$

$$h = 7$$

$$2b - 2 = 22$$

$$b = 12$$

$$2n - 8 = 42$$

$$n = 25$$

$$-3f + 4 = -11$$

$$f = 5$$

$$-3x = 15$$

$$x = -5$$

$$-2u + 10 = 50$$

$$u = -20$$

$$5m = -10$$

$$m = -2$$

$$3y + 2 = 11$$

$$y = 3$$

$$2c + 8 = 20$$

$$c = 6$$

$$2y - 4 = -20$$

$$y = -8$$