

Solving Algebraic Equations

Name: _____ Score: _____

Solve for each variable.

$$7x = 21$$

$$3v + 3 = 33$$

$$2z = 24$$

$$2c + 3 = 17$$

$$3y = 15$$

$$2r + 3 = 19$$

$$2t = 20$$

$$4q - 30 = -22$$

$$-a = -16$$

$$-2b + 9 = 1$$

$$-3y - 2 = -8$$

$$f - 2 = 10$$

$$3a - 2 = 43$$

$$3c - 8 = 25$$

$$-2d + 4 = -8$$

$$-8z = -40$$

$$-u + 10 = 30$$

$$5k = -25$$

$$3x + 2 = 29$$

$$3v + 8 = 20$$

$$3z + 4 = -2$$

Answers

Solve for each variable.

$$7x = 21$$

$$x = 3$$

$$3v + 3 = 33$$

$$v = 10$$

$$2z = 24$$

$$z = 12$$

$$2c + 3 = 17$$

$$c = 7$$

$$3y = 15$$

$$y = 5$$

$$2r + 3 = 19$$

$$r = 8$$

$$2t = 20$$

$$t = 10$$

$$4q - 30 = -22$$

$$q = 2$$

$$-a = -16$$

$$a = 16$$

$$-2b + 9 = 1$$

$$b = 4$$

$$-3y - 2 = -8$$

$$y = 2$$

$$f - 2 = 10$$

$$f = 12$$

$$3a - 2 = 43$$

$$a = 15$$

$$3c - 8 = 25$$

$$c = 11$$

$$-2d + 4 = -8$$

$$d = 6$$

$$-8z = -40$$

$$z = 5$$

$$-u + 10 = 30$$

$$u = -20$$

$$5k = -25$$

$$k = -5$$

$$3x + 2 = 29$$

$$x = 9$$

$$3v + 8 = 20$$

$$v = 4$$

$$3z + 4 = -2$$

$$z = -2$$