

Solving Algebraic Equations with Brackets

Name: _____ Score: _____

Solve for each variable.

$$2(2 + x) = 10$$

$$4(3n + 3) = 60$$

$$v(3 + 5) = 32$$

$$q(5 - 2) = 30$$

$$y(5 + 4) = 18$$

$$-(1 + 4t) = -17$$

$$-2(-3z + 3) = 6$$

$$r(5 + 3) = 96$$

$$2y(11 + 5) = 96$$

$$-n(-2 + 3) = -5$$

$$5(3v + 5) = -20$$

$$2(6z + 2) = 28$$

$$2(3 - 3x) = -60$$

$$e(-7 + 4) = -9$$

$$-x(6 - 4) = 8$$

$$-(4v + 7) = 1$$

$$2r(-1 + 4) = 12$$

$$2(6 + 2n) = 28$$

Answers

Solve for each variable.

$$2(2 + x) = 10$$

$$x = 3$$

$$4(3n + 3) = 60$$

$$n = 4$$

$$v(3 + 5) = 32$$

$$v = 4$$

$$q(5 - 2) = 30$$

$$q = 10$$

$$y(5 + 4) = 18$$

$$y = 2$$

$$-(1 + 4t) = -17$$

$$t = 4$$

$$-2(-3z + 3) = 6$$

$$z = 2$$

$$r(5 + 3) = 96$$

$$r = 12$$

$$2y(11 + 5) = 96$$

$$y = 3$$

$$-n(-2 + 3) = -5$$

$$n = 5$$

$$5(3v + 5) = -20$$

$$v = -3$$

$$2(6z + 2) = 28$$

$$z = 2$$

$$2(3 - 3x) = -60$$

$$x = 11$$

$$e(-7 + 4) = -9$$

$$e = 3$$

$$-x(6 - 4) = 8$$

$$x = -4$$

$$-(4v + 7) = 1$$

$$v = -2$$

$$2r(-1 + 4) = 12$$

$$r = 2$$

$$2(6 + 2n) = 28$$

$$n = 4$$