

Solving Algebraic Equations with Brackets

Name: _____ Score: _____

Solve for each variable.

$$3(1 + m) = 9$$

$$2(3q + 5) = 28$$

$$2h(6 + 5) = 110$$

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

$$d(3 + 4) = 7$$

$$-2(2 + 4g) = -52$$

$$-5(-4v + 8) = 20$$

$$2r(6 + 3) = 180$$

$$2n(6 + 5) = 66$$

$$-m(-1 + 3) = -8$$

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

$$2(6z + 2) = 16$$

$$3(5 - 2x) = -45$$

$$-d(-3 + 4) = -5$$

$$-2g(2 - 4) = 16$$

$$-2(-4v + 7) = -30$$

$$3r(6 + 4) = 60$$

$$2(3 + 5n) = 36$$

Answers

Solve for each variable.

$$3(1 + m) = 9$$

$$m = 2$$

$$2(3q + 5) = 28$$

$$q = 3$$

$$2h(6 + 5) = 110$$

$$h = 5$$

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

$$x = 10$$

$$d(3 + 4) = 7$$

$$d = 1$$

$$-2(2 + 4g) = -52$$

$$g = 6$$

$$-5(-4v + 8) = 20$$

$$v = 3$$

$$2r(6 + 3) = 180$$

$$r = 10$$

$$2n(6 + 5) = 66$$

$$n = 3$$

$$-m(-1 + 3) = -8$$

$$m = 4$$

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

$$v = -3$$

$$2(6z + 2) = 16$$

$$z = 1$$

$$3(5 - 2x) = -45$$

$$x = 10$$

$$-d(-3 + 4) = -5$$

$$d = 5$$

$$-2g(2 - 4) = 16$$

$$g = 4$$

$$-2(-4v + 7) = -30$$

$$v = -2$$

$$3r(6 + 4) = 60$$

$$r = 2$$

$$2(3 + 5n) = 36$$

$$n = 3$$