

Advanced Two-Step Equations

Worksheet

Solve each equation to find the value of the variable.

$$3x - 9 = 15$$

$$\frac{y}{5} + 7 = 2$$

$$4 - 2z = -6$$

$$\frac{3a - 15}{3} = 5$$

$$\frac{c + 8}{4} = -2$$

$$2b + 0.5 = -3.5$$

Advanced Two-Step Equations

Worksheet

Solve each equation to find the value of the variable.

$$3x - 9 = 15$$

$$3x = 15 + 9$$

$$3x = 24$$

$$x = \frac{24}{3}$$

$$x = 8$$

$$4 - 2z = -6$$

$$-2z = -6 - 4$$

$$-2z = -10$$

$$z = \frac{-10}{-2}$$

$$z = 5$$

$$\frac{c + 8}{4} = -2$$

$$c + 8 = -2 \times 4$$

$$c + 8 = -8$$

$$c = -8 - 8$$

$$c = -16$$

$$\frac{y}{5} + 7 = 2$$

$$\frac{y}{5} = 2 - 7$$

$$\frac{y}{5} = -5$$

$$y = -5 \times 5$$

$$y = -25$$

$$\frac{3a - 15}{3} = 5$$

$$3a - 15 = 5 \times 3$$

$$3a - 15 = 15$$

$$3a = 15 + 15$$

$$3a = 30$$

$$a = \frac{30}{3} = 10$$

$$2b + 0.5 = -3.5$$

$$2b = -3.5 - 0.5$$

$$2b = -4$$

$$b = \frac{-4}{2}$$

$$b = -2$$