

# COUNTDOWN Challenge

## Algebra: Solving for an Unknown

Study the pattern and solve.

$$n \times n = 25$$

$$n^2 = 25$$

$$n^2 = 25$$

$$n + n = 10$$

$$n + n = 10$$

$$2n = 10$$

$$n = \underline{\quad}$$

$$n = \underline{\quad}$$

$$n = \underline{\quad}$$

$$a \times a = 36$$

$$a^2 = 36$$

$$a^2 = 36$$

$$a + a = 12$$

$$a + a = 12$$

$$2a = 12$$

$$a = \underline{\quad}$$

$$a = \underline{\quad}$$

$$a = \underline{\quad}$$

$$b \times b = 100$$

$$b^2 = 100$$

$$b^2 = 100$$

$$b + b = 20$$

$$b + b = 20$$

$$2b = 20$$

$$b = \underline{\quad}$$

$$b = \underline{\quad}$$

$$b = \underline{\quad}$$

$$c \times \underline{\quad} = 9$$

$$c^2 = 9$$

$$c^2 = 9$$

$$c + c = \underline{\quad}$$

$$c + c = \underline{\quad}$$

$$2c = \underline{\quad}$$

$$c = \underline{\quad}$$

$$c = \underline{\quad}$$

$$c = \underline{\quad}$$

$$z \times z = \underline{\quad}$$

$$z^2 = \underline{\quad}$$

$$z^2 = \underline{\quad}$$

$$z + z = 14$$

$$z + z = 14$$

$$= 14$$

$$z = \underline{\quad}$$

$$z = \underline{\quad}$$

$$z = \underline{\quad}$$

$$y \times y = \underline{\quad}$$

$$y^2 = 81$$

$$y^2 = 81$$

$$y + y = \underline{\quad}$$

$$y + y = 18$$

$$2y = \underline{\quad}$$

$$y = 9$$

$$y = \underline{\quad}$$

$$y = \underline{\quad}$$