

Solve Cube Root Equations

Directions: Solve each equation for the variable. If the given number is not a perfect cube, write your answer using the cube root symbol.

$$h^3 = 27$$

$$h = 3$$

$$v^3 = 8$$

$$v = 2$$

$$f^3 = -64$$

$$f = -4$$

$$t^3 = 18$$

$$t = \sqrt[3]{18}$$

$$x^3 = -1$$

$$x = -1$$

$$d^3 = 30$$

$$d = \sqrt[3]{30}$$

$$i^3 = -216$$

$$j = -6$$

$$y^3 = -100$$

$$y = \sqrt[3]{-10}0$$

$$a^3 = -343$$

$$a = -7$$

$$b^3 = -1,728$$

$$b = -12$$

$$r^3 = 1,331$$

$$r = 11$$

$$n^3 = 128$$

$$n = \sqrt[3]{128} \text{ (or } 4\sqrt[3]{2} \text{)}$$

$$p^3 = 54$$

$$p = \sqrt[3]{54}$$
 (or $3\sqrt[3]{2}$)

$$w^3 = 15,625$$

$$w = 25$$

$$m^3 = -3,375$$

$$m = -15$$

$$z^3 = 250$$

$$z = \sqrt[3]{250}$$
 (or $5\sqrt[3]{2}$)

$$g^3 = -8,000$$

$$q = -20$$

$$c^3 = 64,000$$

$$c = 40$$