

### Key Concept

**Solving Equations Using Cube Roots**

Given  $x^3 = a$ , the cube root of each side of the equation is  $x = \sqrt[3]{a}$ .

Given  $x^3 = 125$   
Take the cube root of each side.  
Simplify the cube root.  
Write the solution.

**Check:**  
 $x^3 = 1^3 = 1^3 = 1$   
 $= 125$  ✓

### Part 1 Example: Solving Equations Using Cube Roots

Solve each equation.

a.  $x^3 = 1$

b.  $x^3 = -27$

c.  $x^3 = 64$

d.  $x^3 = -125$

#### Solution

To solve each equation, take the cube root of each side of the equation.

a.  $x^3 = 1$

$x^3 = 1^3$

$x = \sqrt[3]{1^3}$

$x = 1$

The solution

1

b.  $x^3 = -27$

$x^3 = (-3)^3$

$x = \sqrt[3]{(-3)^3}$

$x = -3$

The solution

-3

c.  $x^3 = 64$

$x^3 = 4^3$

$x = \sqrt[3]{4^3}$

$x = 4$

The solution

4

d.  $x^3 = -125$

$x^3 = (-5)^3$

$x = \sqrt[3]{(-5)^3}$

$x = -5$

The solution

-5

### Part 2

#### Example Solving Equations Using Cube Roots of Fractions

Solve  $x^3 = \frac{8}{27}$

**Solution**

#### Think

Solve the equation.

Take the cube root of each side.

Simplify the cube root.

Write the solution.

Check the solution.

#### Write

$$x^3 = \frac{8}{27}$$

$$x = \sqrt[3]{\frac{8}{27}}$$

$$x = \frac{2}{3}$$

The solution is  $\frac{2}{3}$ .

$$\left(\frac{2}{3}\right)^3 = \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} = \frac{8}{27} \checkmark$$

### Part 3

#### Example Using Cube Roots to Solve Volume Problems

An aquarium in the shape of a cube has a volume of 1,256 cubic inches.

- What is the exact length of one side of the aquarium?
- If your answer is not a perfect cube, approximate your answer to the nearest tenth of an inch.

#### Solution

- You can use the formula for the volume of a cube to find the length of one side.

Use the formula for the volume of a cube.

Substitute 1,256 for the volume.

Take the cube root of each side.

The exact length of one side of the aquarium is  $\sqrt[3]{1,256}$  inches.

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**J Elliott**

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