

Name _____

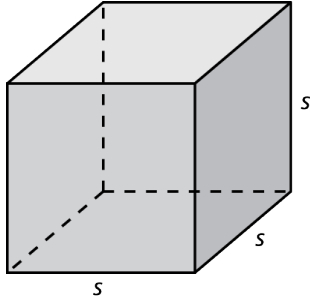
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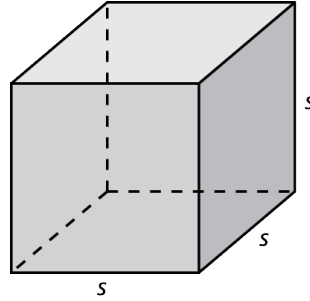
14.2 Practice: Finding Cube Roots

Find the edge length of the cube.

1. Volume = $27,000 \text{ cm}^3$



2. Volume = $\frac{1}{8} \text{ in.}^3$



Cube each number.

3. 6 _____

4. (-4) _____

5. 30 _____

6. (-1/2) _____

Find the cube root.

7. $\sqrt[3]{125}$

8. $\sqrt[3]{-1}$

9. $\sqrt[3]{-8}$

10. $\sqrt[3]{-1000}$

11. $\sqrt[3]{8000}$

12. $\sqrt[3]{512}$

13. $\sqrt[3]{-\frac{1}{64}}$

14. $\sqrt[3]{0.001}$

Complete the statement with $<$, $>$, **or** $=$.

15. $-\sqrt[3]{27}$? -4

16. $\sqrt[3]{64}$? $\sqrt{16}$

Solve the equation using square roots.

17. $x^3 + 8 = 0$

18. $8x^3 - 27 = 0$

19. $(4x - 1)^3 = 343$

20. $\sqrt[3]{x + 4} = (-5)$