

Cube Roots

Fill in the blanks to complete the radical expressions.

1. $\sqrt[3]{27} = \underline{\quad}$ because $(\underline{\quad})^3 = 27$

2. $\sqrt[3]{64} = \underline{\quad}$ because $(\underline{\quad})^3 = 64$

3. $\sqrt[3]{1} = \underline{\quad}$ because $(\underline{\quad})^3 = 1$

4. $\sqrt[3]{125} = \underline{\quad}$ because $(\underline{\quad})^3 = 125$

5. $\sqrt[3]{343} = \underline{\quad}$ because $(\underline{\quad})^3 = 343$

6. $\sqrt[3]{\frac{1}{216}} = \underline{\quad}$ because $(\underline{\quad})^3 = \frac{1}{216}$

7. $\sqrt[3]{\frac{1}{1000}} = \underline{\quad}$ because $(\underline{\quad})^3 = \frac{1}{1000}$

8. $\sqrt[3]{\frac{8}{125}} = \underline{\quad}$ because $(\underline{\quad})^3 = \frac{8}{125}$

9. $\sqrt[3]{0.027} = \underline{\quad}$ because $(\underline{\quad})^3 = 0.027$

10. $\sqrt[3]{0.216} = \underline{\quad}$ because $(\underline{\quad})^3 = 0.216$

Find the square root of each number.

11. $\sqrt{49} = \underline{\quad}$

12. $\sqrt{90,000} = \underline{\quad}$

13. $\sqrt{0.0036} = \underline{\quad}$

14. $\sqrt{2500} = \underline{\quad}$

15. $\sqrt{\frac{1}{64}} = \underline{\quad}$

16. $\sqrt{\frac{4}{81}} = \underline{\quad}$

Tell whether each number is rational or irrational.

17. 23.6 _____

18. 3 _____

19. $\sqrt{15}$ _____

20. $1.\overline{63}$ _____

Order the numbers from least to greatest.

21. 7, $\sqrt{43}$, 6.1, $\sqrt{71}$, $\sqrt{86}$, 8.8, $\sqrt{14}$, $\sqrt{35}$

22. $\sqrt{52}$, 9.3, $\sqrt{72}$, 8.5, $\sqrt{66}$, 4.9, $\sqrt{10}$, 3.4

23. 9.4, 5.5, $\sqrt{77}$, 4.4, $\sqrt{88}$, 6.6, $\sqrt{33}$, 8.8

24. 7.1, 1.2, $\sqrt{50}$, 3.4, $\sqrt{40}$, 6.31, $\sqrt{20}$, 4.48
