

Express each of the following radicals in simplest form.

1. $\sqrt{64} = \underline{\hspace{2cm}}$

2. $\sqrt[3]{64} = \underline{\hspace{2cm}}$

3. $\sqrt{81} = \underline{\hspace{2cm}}$

4. $\sqrt[3]{81} = \underline{\hspace{2cm}}$

5. $\sqrt{125} = \underline{\hspace{2cm}}$

6. $\sqrt[3]{125} = \underline{\hspace{2cm}}$

7. $\sqrt{80} = \underline{\hspace{2cm}}$

8. $\sqrt[3]{80} = \underline{\hspace{2cm}}$

9. $\sqrt{x^2} = \underline{\hspace{2cm}}$

10. $\sqrt[3]{x^3} = \underline{\hspace{2cm}}$

11. $\sqrt{x^5} = \underline{\hspace{2cm}}$

12. $\sqrt[3]{x^5} = \underline{\hspace{2cm}}$

13. $\sqrt{12x^3} = \underline{\hspace{2cm}}$

14. $\sqrt[3]{40x^3} = \underline{\hspace{2cm}}$

15. $\sqrt{72x^4} = \underline{\hspace{2cm}}$

16. $\sqrt[3]{72x^4} = \underline{\hspace{2cm}}$

17. $\sqrt{36x^2y^5} = \underline{\hspace{2cm}}$

18. $\sqrt[3]{54x^7y^5} = \underline{\hspace{2cm}}$

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Express each of the following radicals in simplest form.

19. $\sqrt{\frac{4}{9}} =$

20. $\sqrt[3]{\frac{1}{8}} =$

21. $\sqrt{\frac{3}{4}} =$

22. $\sqrt[3]{\frac{3}{4}} =$

23. $\sqrt{\frac{5}{8}} =$

24. $\sqrt[3]{\frac{5}{8}} =$

25. $\sqrt{\frac{4}{5}} =$

26. $\sqrt[3]{\frac{4}{5}} =$

27. $\sqrt{\frac{2x}{3y}} =$

28. $\sqrt[3]{\frac{2x}{3y}} =$

29. $\sqrt{\frac{5x^2}{9y^3}} =$

30. $\sqrt[3]{\frac{5x^2}{9y^3}} =$

31. $\sqrt{\frac{3x^5}{8y^4}} =$

32. $\sqrt[3]{\frac{3x^5}{8y^4}} =$