DIRECTIONS: Simplify. When variables are present, assume each radical represents a real number.

1. $\sqrt[3]{250}$

2. $\sqrt[3]{135}$

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

4. $\sqrt[3]{\frac{2}{9}}$

5. $\frac{9\sqrt{2}}{\sqrt{18}}$

6. $\frac{4\sqrt{3}}{\sqrt{12}}$

7. $(2\sqrt{7})^2$

8. $(3\sqrt{6})^2$

9. $(\sqrt[3]{45})(\sqrt[3]{12})$

10. $(\sqrt[3]{20})(\sqrt[3]{14})$

11. $\frac{\sqrt[3]{60}}{\sqrt[3]{36}}$

12. $\frac{\sqrt[3]{175}}{\sqrt[3]{50}}$

13. $\sqrt{32}$

14. $\sqrt[3]{32}$

15. $\sqrt[4]{32}$

16. $\sqrt[5]{32}$

17. $\sqrt{\frac{3}{8}}$ **18.** $\sqrt[3]{\frac{3}{8}}$ **19.** $\sqrt[4]{\frac{3}{8}}$ **20.** $\sqrt[5]{\frac{3}{8}}$

21. $\sqrt{18x^2}$ **22.** $\sqrt{12x^5}$

23. $\sqrt[3]{375a^5}$ **24.** $\sqrt[3]{16c^4}$

25. $\sqrt{\frac{x^2}{y^3}}$ **26.** $\sqrt{\frac{y^2}{x^5}}$

27. $\sqrt[3]{\frac{27a}{4b^4}}$ **28.** $\sqrt[3]{\frac{8c}{9d^5}}$