4-1 Simplifying Radicals

Name: _____   Time› Start: _____   Finish: _____   Total Time = _____

Simplify each radical. Show your work on a separate piece of paper.

_____ 1. $\sqrt{98}$

_____ 2. $\sqrt{8}$

_____ 3. $\sqrt{44}$

_____ 4. $\sqrt{90a^3}$

_____ 5. $\sqrt{12a^2b^5}$

_____ 6. $\sqrt{a^3b^4c^2}$

_____ 7. $\sqrt{20a}$

_____ 8. $\sqrt[3]{16}$

_____ 9. $\sqrt[3]{a^4b^6}$

_____ 10. $\sqrt{200}$

_____ 11. $\sqrt[4]{a^2b^5}$

_____ 12. $\sqrt[5]{a^{11}b^8c^{15}}$

_____ 13. $\sqrt[3]{24a^6}$

_____ 14. $\sqrt[99]{a^{103}}$

_____ 15. $\sqrt[3]{54}$

_____ 16. $\sqrt{1000}$

_____ 17. $\sqrt{100a^4}$

_____ 18. $\sqrt[4]{32}$