

Algebra 2
Simplifying Radicals

Name: _____
Period: _____

Simplify completely.

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|---------------------------------|-------------------------|------------------------------------|--------------------------------------|---|
| 1. $\sqrt[5]{128}$ | 2. $\sqrt[4]{3125}$ | 3. $\sqrt[3]{256m^{10}}$ | 4. $\sqrt[4]{81c^{14}}$ | 5. $\sqrt{216t^3m^8}$ |
| 6. $\sqrt[4]{625z^{11}}$ | 7. $\sqrt[3]{32x^4y^9}$ | 8. $\sqrt[5]{243r^{14}t^{10}}$ | 9. $\sqrt[4]{567w^7m^{12}}$ | 10. $\sqrt[3]{3456e^6f^{13}}$ |
| 11. $\sqrt[6]{576a^{10}b^{13}}$ | 12. $\sqrt{9x^3y^5z^2}$ | 13. $\sqrt{504v^4g^9k^2}$ | 14. $\sqrt[3]{8c^3d^6e}$ | 15. $\sqrt[6]{128b^2c^{11}d^{18}}$ |
| 16. $\sqrt[4]{6250d^9e^{12}f}$ | 17. $\sqrt{12x^{-2}}$ | 18. $\sqrt{\frac{1}{64}a^4b^{-6}}$ | 19. $\sqrt[3]{\frac{54y^4}{x^{12}}}$ | 20. $\sqrt[4]{\frac{32m^{10}n^5}{p^7}}$ |

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