



Name: _____

Period: _____

3.2 Simplifying Radicals

Simplify. Write your answers in simplest radical form.

1. $\sqrt{81}$

2. $\sqrt{144}$

3. $\sqrt{25}$

4. $\sqrt{16x^6y^8}$

5. $\sqrt[3]{125}$

6. $\sqrt[3]{8x^{18}y^6}$

7. $\sqrt{18}$

8. $\sqrt{50}$

9. $\sqrt{120}$

10. $\sqrt{28x^3y^4}$

11. $\sqrt{300x^7}$

12. $\sqrt{36xy^8}$

13. $13\sqrt{8}$

14. $4\sqrt{121}$

15. $3\sqrt{48}$

16. $5\sqrt{12x^3}$

17. $3\sqrt{75x^5}$

18. $9xy\sqrt{72x^3y^{14}}$

19. $\sqrt[3]{81x^6y^{10}}$

20. $\sqrt[3]{x^5y^6z^{10}}$

21. $2\sqrt[3]{16x^6}$

22. $x^2y^4z\sqrt[3]{24x^6}$

23. $\sqrt[4]{810x^9}$

24. $5x^2y^3\sqrt[4]{64x^7y^{10}}$