

Match each property with the simplified form—not all answers will be used, some may be used more than once.

_____ 1. \sqrt{ab}

_____ 2. $\sqrt{\frac{a}{b}}$

_____ 3. $\sqrt{a^2}$

_____ 4. $(\sqrt{a})^2$

_____ 5. $\frac{a}{\sqrt{b}}$

A. $\sqrt{a}\sqrt{b}$	B. a^2	C. a	D. $\frac{\sqrt{ab}}{b}$
E. $\frac{\sqrt{a}}{\sqrt{b}}$	F. ab	G. 1	H. $\frac{a\sqrt{b}}{b}$

Simplify each expression. Place answer on the blank line next to problem number.

_____ 6. $\sqrt{54}$

_____ 7. $-3\sqrt{98}$

_____ 8. $\sqrt{12x^7y^3}$

_____ 9. $\sqrt{20x^2} \cdot \sqrt{5x^6}$

_____ 10. $\sqrt{8x^3} \cdot 2\sqrt{5x^4} \cdot 3\sqrt{2x}$

_____ 11. $\sqrt{\frac{5}{16}}$

_____ 12. $\frac{12}{\sqrt{28}}$

_____ 13. $\frac{6\sqrt{2}}{\sqrt{75y}}$

_____ 14. $\sqrt{\frac{35}{15y}}$

_____ 15. $\sqrt{\frac{6xy^5}{9x^2y}}$

_____ 16. $11\sqrt{5} - 3\sqrt{5} + \sqrt{5}$

_____ 17. $2\sqrt{8} - \sqrt{20} - 7\sqrt{2}$

_____ 18. $\sqrt{11}(1 + 2\sqrt{11})$
