

p. 417: 3-6, 9, 12

Homework

MATCHING EXPRESSIONS Match the expression in rational exponent notation with the equivalent expression in radical notation.

3. $2^{1/3}$

4. $2^{3/2}$

5. $2^{2/3}$

6. $2^{1/2}$

A. $(\sqrt{2})^3$

B. $\sqrt{2}$

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

D. $(\sqrt[3]{2})^2$

USING RATIONAL EXPONENT NOTATION Rewrite the expression using rational exponent notation.

9. $(\sqrt[3]{10})^7$

USING RADICAL NOTATION Rewrite the expression using radical notation.

12. $7^{1/3}$

p. 424: 1, 4, 8, 16

1. **VOCABULARY** Are $2\sqrt{5}$ and $2\sqrt[3]{5}$ like radicals? *Explain* why or why not.

Simplify the expression.

4. $(6^{2/3})^{1/2}$

8. $\left(\frac{7^3}{4^3}\right)^{-1/3}$

16. $\sqrt[3]{16} \cdot \sqrt[3]{4}$