

Exponents – Radicals

The exponent is the numerator, the index is the denominator.

Rewrite the following as radicals or as exponentials with rational exponents.

The denominator is the index!

1. $4^{1/2}$

2. $8^{2/3}$

3. $X^{2/5}$

4. $(3Y)^{1/3}$

5. $\sqrt[2]{16^1}$

6. $\sqrt[3]{8^2}$

7. $\sqrt[5]{X^2}$

8. $\sqrt[4]{X^2}$

9. $\sqrt[4]{X^2Y^8}$

10. $\sqrt[3]{27X^2Y^9Z^3}$