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## Radicals and Rational Exponents

1 Write each expression in radical form.

a  $2^{\frac{1}{2}}$

b  $27^{\frac{2}{3}}$

c  $1000^{\frac{3}{4}}$

d  $6^{\frac{7}{8}}$

e  $8^{\frac{1}{3}}$

f  $3x^{\frac{2}{3}}$

2 Write each expression with a rational exponent.

a  $\sqrt[3]{2}$

b  $\sqrt{2}$

c  $\sqrt[3]{10}$

d  $(\sqrt{2})^2$

e  $(\sqrt[5]{5})^5$

f  $(\sqrt[3]{2})^5$

3 Write each expression in exponential form.

a  $(\sqrt[3]{3b})^4$

b  $\sqrt[3]{6p}$

c  $\frac{1}{(\sqrt[3]{3x})^2}$

4 Simplify.

a  $100000^{\frac{1}{5}}$

b  $(9x^4)^{\frac{3}{2}}$

c  $(36n^{12})^{-\frac{1}{2}}$

# Radicals And Rational Exponents Worksheet Answers

**RM Cervero**



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