

Name : _____ Score : _____
Teacher : _____ Date : _____

Radical and Rational Exponents

Write each expression in exponential form.

1) $(\sqrt[3]{15})^4$

2) $(\sqrt{13})^3$

3) $(\sqrt[3]{2c})^4$

4) $(\sqrt[4]{15})^6$

Write each expression in radical form.

5) $(10b)^{\frac{4}{5}}$

6) $(6)^{\frac{3}{2}}$

7) $(3)^{\frac{3}{2}}$

8) $(x)^{\frac{5}{2}}$

Simplify.

9) $(100000q^{15})^{\frac{4}{5}}$

10) $(100)^{\frac{3}{2}}$

11) $(15625p^{24})^{\frac{5}{6}}$

12) $(243z^{15})^{\frac{2}{3}}$

