

## Rewriting Radicals and Fractional Exponents

Date \_\_\_\_\_ Period \_\_\_\_\_

**Write each expression in radical form.**

1)  $10^{\frac{1}{3}}$

2)  $2^{\frac{5}{4}}$

3)  $5^{\frac{1}{4}}$

4)  $7^{\frac{5}{2}}$

5)  $5^{\frac{3}{4}}$

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

7)  $(5m)^{\frac{1}{4}}$

8)  $(10x)^{\frac{1}{2}}$

9)  $(6x)^{\frac{1}{2}}$

10)  $x^{\frac{5}{4}}$

**Write each expression in exponential form.**

11)  $\sqrt[4]{3}$

12)  $\sqrt{5}$

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

14)  $(\sqrt[3]{6})^5$

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

16)  $(\sqrt[6]{k})^7$

17)  $(\sqrt{x})^3$

18)  $(\sqrt[3]{6v})^4$

19)  $\sqrt[4]{n^2}$

20)  $(\sqrt{10x})^5$