

Name : _____ Score : _____

Teacher : _____ Date : _____

Rational Exponent Equations

Solve each equation.

1) $\frac{1}{343} = p^{\frac{3}{2}}$

2) $8 = -19 + (3g)^{\frac{3}{5}}$

3) $-q^{\frac{4}{3}} = -81$

4) $-29 = -17 - 4(4k + 160)^{\frac{1}{6}}$

5) $4 = (x + 13)^{\frac{1}{5}}$

6) $10014 = (4g + 23)^{\frac{4}{3}} + 14$

7) $\frac{1}{4096} = q^{\frac{6}{4}}$

8) $(16 - 2q)^{\frac{6}{5}} - 13 = 1011$

9) $243 = (n - 95)^{\frac{6}{5}}$

10) $2g^{\frac{3}{4}} - 50 = \frac{390}{5}$

11) $-8 = -r^{\frac{3}{4}}$

12) $24 = -3 + (c + 33)^{\frac{3}{5}}$

