

Name : _____

Score : _____

Teacher : _____

Date : _____

Rational Exponent Equations

Solve each equation.

1) $4s^{-\frac{4}{5}} - 4 = \frac{1280}{4}$

2) $125 = r^{\frac{3}{5}}$

3) $17 + 4(3p + 115)^{\frac{6}{5}} = 2933$

4) $\frac{1}{625} = y^{-\frac{4}{3}}$

5) $(h - 33)^{\frac{5}{2}} + 5 = 16812$

6) $-103 = -7 - 3(4r + 50)^{\frac{5}{6}}$

7) $243 = (g + 13)^{\frac{5}{6}}$

8) $-q^{\frac{5}{3}} = -100000$

9) $-b^{\frac{3}{2}} = -512$

10) $228 = -28 + (h + 24)^{\frac{4}{5}}$

11) $3g^{-\frac{2}{5}} - 100 = \frac{-100}{4}$

12) $9 = (z + 37)^{\frac{2}{5}}$



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Rational Exponent Equations

Solve each equation.

1) $4s^{-\frac{4}{5}} - 4 = \frac{1280}{4}$

$\left\{\frac{1}{243}\right\}$

2) $125 = r^{\frac{3}{5}}$

$\{3125\}$

3) $17 + 4(3p + 115)^{\frac{6}{5}} = 2933$

$\left\{\frac{128}{3}\right\}$

4) $\frac{1}{625} = y^{-\frac{4}{3}}$

$\{125\}$

5) $(h - 33)^{\frac{5}{2}} + 5 = 16812$

$\{82\}$

6) $-103 = -7 - 3(4r + 50)^{\frac{5}{6}}$

$\left\{\frac{7}{2}\right\}$

7) $243 = (g + 13)^{\frac{5}{6}}$

$\{716\}$

8) $-q^{\frac{5}{3}} = -100000$

$\{1000\}$

9) $-b^{\frac{3}{2}} = -512$

$\{64\}$

10) $228 = -28 + (h + 24)^{\frac{4}{5}}$

$\{1000\}$

11) $3g^{-\frac{2}{5}} - 100 = \frac{-100}{4}$

$\left\{\frac{1}{3125}\right\}$

12) $9 = (z + 37)^{\frac{2}{5}}$

$\{206\}$

