

NAME : _____

DATE : _____ SCORE : _____

Simplifying Fractions with Exponents Worksheet

1) $\left(\frac{6}{4}\right)^5 =$

8) $\left(\frac{2}{12}\right)^4 =$

2) $\left(\frac{6}{8}\right)^{-3} =$

9) $\left(\frac{1}{4}\right)^3 =$

3) $\left(-\frac{2}{3}\right)^6 =$

10) $\left(-\frac{3}{4}\right)^2 =$

4) $\left(-\frac{1}{3}\right)^4 =$

11) $\left(-\frac{2}{9}\right)^2 =$

5) $\left(-\frac{1}{2}\right)^8 =$

12) $\left(-\frac{2}{7}\right)^2 =$

6) $\left(-\frac{3}{5}\right)^3 =$

13) $\left(-\frac{1}{3}\right)^4 =$

7) $\left(-\frac{3}{12}\right)^3 =$

14) $\left(-\frac{2}{9}\right)^2 =$

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Answers

1) $\left(\frac{6}{4}\right)^5 = 7.5937$

8) $\left(\frac{2}{12}\right)^4 = 0.0007$

2) $\left(\frac{6}{8}\right)^{-3} = 2.3703$

9) $\left(\frac{1}{4}\right)^3 = 0.0156$

3) $\left(-\frac{2}{3}\right)^6 = 0.0877$

10) $\left(-\frac{3}{4}\right)^2 = 0.5625$

4) $\left(-\frac{1}{3}\right)^4 = 0.0123$

11) $\left(-\frac{2}{9}\right)^2 = 0.0493$

5) $\left(-\frac{1}{2}\right)^8 = 0.0156$

12) $\left(-\frac{2}{7}\right)^2 = 0.0816$

6) $\left(-\frac{3}{5}\right)^3 = -0.216$

13) $\left(-\frac{1}{3}\right)^4 = 0.0123$

7) $\left(-\frac{3}{12}\right)^3 = -0.0156$

14) $\left(-\frac{2}{9}\right)^2 = 0.0493$