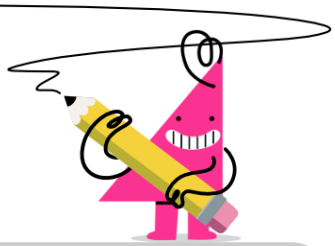
Name

Exponents - Fractional Exponents with Unit Fractional Base



1 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{32}\right)^{\left(\frac{1}{5}\right)}$$

A $\sqrt[5]{3}$ B $\frac{1}{2}$ C $\frac{1}{2\sqrt[5]{4}}$

D $\frac{1}{5}$ E 4 F 1

2 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{9}\right)^{\left(\frac{1}{2}\right)}$$

A $\frac{1}{3}$ B $\sqrt{4}$ C $\frac{4}{3}$

D 1 E $\frac{1}{3\sqrt{4}}$ F $\frac{5}{4}$

3 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{121}\right)^{\left(\frac{1}{2}\right)}$$

A $\frac{2}{5}$ B $\frac{\sqrt{3}}{11}$ C $\frac{1}{4}$

D $\frac{1}{11}$ E $\frac{\sqrt{4}}{11}$ F 1

4 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{81}\right)^{\left(\frac{1}{4}\right)}$$

A 3 B 2 C $\sqrt[4]{4}$

D 1 E $\frac{1}{3}$ F $\frac{5}{3}$

5 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{125}\right)^{\left(\frac{1}{3}\right)}$$

A 5 B $\frac{1}{5}$ C $\frac{5}{4}$

D 4 E $\frac{\sqrt[3]{3}}{5}$ F 1

6 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{25}\right)^{\left(\frac{1}{2}\right)}$$

A $\frac{2}{5}$ B $\frac{1}{5\sqrt{3}}$ C $\frac{1}{5}$

D $\sqrt{4}$ E 4 F 1

7 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{49}\right)^{\left(\frac{1}{2}\right)}$$

A 4 B $\sqrt{3}$ C $\frac{1}{4}$

D 1 E $\frac{1}{7}$ F $\sqrt{4}$

8 Find the answer when this fraction is raised to its exponent

$$\left(\frac{1}{16}\right)^{\left(\frac{1}{4}\right)}$$

A $\frac{4}{2}$ B 1 C $\frac{1}{2}$

D $\frac{3}{2\sqrt[4]{4}}$ E $\frac{5}{5}$ F $\frac{1}{4}$