mobius

Exponents - Fractional Base

Name _____

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

$$\left(\frac{10}{2}\right)^2$$

A $\frac{20}{4}$	B $\frac{12}{4}$	C $\frac{12}{2}$
D $\frac{100}{4}$	E $\frac{10}{4}$	F $\frac{10,000}{4}$

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

$$\left(\frac{10}{8}\right)^2$$

A $\frac{12}{4,096}$	B $\frac{20}{16}$	C $\frac{1,000}{8}$
D $\frac{20}{512}$	E $\frac{100}{64}$	F $\frac{1,000}{67}$

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

$$\left(\frac{5}{11}\right)^2$$

A $\frac{5}{22}$	B $\frac{1}{1,331}$	C $\frac{10}{13}$
D 10	E $\frac{25}{121}$	F $\frac{125}{14,641}$

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

$$\left(\frac{7}{9}\right)^2$$

A $\frac{7}{9}$	B $\frac{49}{81}$	C $\frac{14}{18}$
D $\frac{9}{78}$	E $\frac{343}{729}$	F $\frac{7}{11}$

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

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

A $\frac{1}{11}$	B $\frac{8}{13}$	C $\frac{4}{121}$
D $\frac{7}{11}$	E $\frac{4}{13}$	F $\frac{16}{13}$

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

$$\left(\frac{9}{3}\right)^2$$

A $\frac{81}{9}$	B 18	C $\frac{6,561}{12}$
D $\frac{1}{81}$	E $\frac{18}{81}$	F $\frac{18}{3}$

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

$$\left(\frac{11}{8}\right)^2$$

A $\frac{22}{16}$	B $\frac{11}{512}$	C $\frac{1,331}{61}$
D $\frac{121}{64}$	E $\frac{118}{512}$	F $\frac{1,331}{10}$

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

$$\left(\frac{7}{10}\right)^2$$

A $\frac{46}{10,000}$	B $\frac{7}{1,000}$	C $\frac{1}{10}$
D $\frac{49}{100}$	E $\frac{14}{10}$	F $\frac{1}{12}$