



Math worksheet on 'Exponents - Unit Fraction Base (Level 3)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Intro'

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

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

a $\frac{1}{32}$	b $\frac{1}{16}$	c $\frac{4}{64}$
d $\frac{5}{7}$	e $\frac{1}{29}$	f $\frac{1}{64}$

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

$$\left(\frac{1}{2}\right)^4$$

a $\frac{4}{8}$	b $\frac{4}{32}$	c $\frac{1}{16}$
d $\frac{1}{8}$	e $\frac{5}{4}$	f $\frac{2}{6}$

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

$$\left(\frac{1}{11}\right)^2$$

a $\frac{1}{121}$	b $\frac{1}{13}$	c $\frac{1}{1}$
d $\frac{3}{1,331}$	e $\frac{2}{14,641}$	f $\frac{2}{22}$

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

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

a $\frac{4}{7}$	b $\frac{4}{12}$	c $\frac{1}{12}$
d $\frac{1}{7}$	e $\frac{1}{81}$	f $\frac{1}{243}$

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

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

a $\frac{1}{11}$	b $\frac{1}{1}$	c $\frac{2}{729}$
d $\frac{1}{81}$	e $\frac{1}{9}$	f $\frac{2}{18}$

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

$$\left(\frac{1}{5}\right)^3$$

a $\frac{1}{625}$	b $\frac{1}{8}$	c $\frac{3}{128}$
d $\frac{2}{15}$	e $\frac{1}{15}$	f $\frac{1}{125}$

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

$$\left(\frac{1}{6}\right)^3$$

a $\frac{1}{36}$	b $\frac{1}{1,296}$	c $\frac{1}{216}$
d $\frac{4}{18}$	e $\frac{3}{36}$	f $\frac{3}{219}$