



Math worksheet on 'Exponents - Negative Fractional Exponents with Square Integer Base - Exponent to Answer (Level 2)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Practice'

Learn online:

app.mobius.academy/math/units/exponents_fractional_bases_and_exponents_practice

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

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

a $\frac{1}{4}$	b $\frac{1}{3}$	c $\frac{1}{1}$
d $\frac{1}{5\sqrt[3]{2}}$	e $\frac{1}{2}$	f $\frac{1}{5}$

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

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

a $\frac{1}{2\sqrt[5]{2}}$	b $\frac{1}{1}$	c $\frac{1}{2}$
d $\frac{1}{3}$	e $\frac{1}{2\sqrt[5]{4}}$	f $\frac{1}{5}$

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

$$16^{\left(\frac{-1}{2}\right)}$$

a $\frac{1}{2}$	b $\frac{1}{4\sqrt{3}}$	c $\frac{1}{4}$
d $\frac{1}{5}$	e $\frac{1}{4\sqrt{2}}$	f $\frac{1}{1}$

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

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

a $\frac{1}{1}$	b $\frac{1}{2}$	c $\frac{1}{3}$
d $\frac{1}{5}$	e $\frac{1}{2\sqrt[4]{3}}$	f $\frac{1}{2\sqrt[4]{2}}$

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

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

a $\frac{1}{4}$	b $\frac{1}{3}$	c $\frac{1}{3\sqrt{4}}$
d $\frac{1}{5}$	e $\frac{1}{3\sqrt{3}}$	f $\frac{1}{1}$

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

$$36^{\left(\frac{-1}{2}\right)}$$

a $\frac{1}{3}$	b $\frac{1}{6}$	c $\frac{1}{2}$
d $\frac{1}{1}$	e $\frac{1}{4}$	f $\frac{1}{5}$

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

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

a $\frac{1}{3}$	b $\frac{1}{1}$	c $\frac{1}{5\sqrt{2}}$
d $\frac{1}{5}$	e $\frac{1}{4}$	f $\frac{1}{5\sqrt{3}}$