



Math worksheet on 'Exponents - Negative Fractional Exponents with Square Integer Base - Exponent to Radical (Level 1)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Practice'

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1 Find the radical that is the same as this number raised to its exponent

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

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

2 Find the radical that is the same as this number raised to its exponent

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

a $\frac{1}{\sqrt{25}}$	b $\frac{1}{1}$	c $\frac{1}{3\sqrt{25}}$
d $\frac{1}{5\sqrt{25}}$	e $\frac{1}{4\sqrt{25}}$	f $\frac{1}{2\sqrt{25}}$

3 Find the radical that is the same as this number raised to its exponent

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

a $\sqrt{16}$	b $\frac{1}{1}$	c $\frac{1}{\sqrt{16}}$
d $\frac{1}{3\sqrt{16}}$	e $\frac{1}{5\sqrt{16}}$	f $\frac{1}{\sqrt{16}^2}$

4 Find the radical that is the same as this number raised to its exponent

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

a $\frac{1}{\sqrt{9}^2}$	b $\frac{1}{\sqrt{9}}$	c $\frac{1}{5\sqrt{9}}$
d $\frac{1}{1}$	e $\frac{1}{3\sqrt{9}}$	f $\frac{1}{4\sqrt{9}}$

5 Find the radical that is the same as this number raised to its exponent

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

a $\frac{1}{3\sqrt{36}}$	b $\frac{1}{\sqrt{4}}$	c $\frac{1}{1}$
d $\frac{1}{\sqrt{36}}$	e $\frac{1}{4\sqrt{36}}$	f $\frac{1}{\sqrt{36}^2}$