



Math worksheet on 'Exponents - Negative Fractional Exponents with Fractional Base (Level 1)'. Part of a broader unit on 'Exponents - Negative and Fractional Bases and Exponents'

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

$$\left(\frac{4}{9}\right)^{\left(\frac{-1}{2}\right)}$$

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

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

$$\left(\frac{9}{121}\right)^{\left(\frac{-1}{2}\right)}$$

a $\frac{1}{2}$	b 1	c $\frac{11}{3}$
d $\frac{11\sqrt{3}}{3}$	e $11\sqrt{3}$	f $\frac{4}{3}$

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

$$\left(\frac{49}{25}\right)^{\left(\frac{-1}{2}\right)}$$

a 1	b $\frac{5}{7}$	c $\frac{1}{3}$
d $\frac{1}{7\sqrt{3}}$	e 5	f 2

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

$$\left(\frac{49}{4}\right)^{\left(\frac{-1}{2}\right)}$$

a $\frac{2}{2}$	b $\frac{2\sqrt{4}}{4}$	c $\frac{2}{7}$
d $\frac{2\sqrt{3}}{3}$	e 2	f $2\sqrt{3}$

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

$$\left(\frac{25}{4}\right)^{\left(\frac{-1}{2}\right)}$$

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

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

$$\left(\frac{25}{121}\right)^{\left(\frac{-1}{2}\right)}$$

a 1	b $\frac{4}{2}$	c $\frac{1}{2}$
d $\frac{1}{4}$	e 2	f $\frac{11}{5}$

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

$$\left(\frac{9}{25}\right)^{\left(\frac{-1}{2}\right)}$$

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