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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'

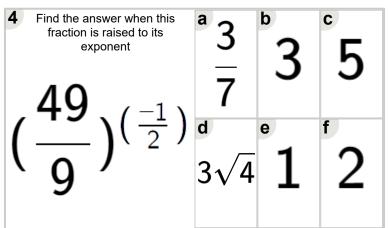
Learn online:

app.mobius.academy/math/units/exponents negative and fractional bases review/

| Find the answer when this fraction is raised to its exponent | ^a 5 | ^b 1 | ° 5 |
|--|----------------|----------------|----------------|
| 4 (-1) | 4 | $\overline{2}$ | $\overline{2}$ |
| $\left(\frac{1}{2}\right)^{\left(\frac{1}{2}\right)}$ | d L | e 1 | ^f 1 |
| `25' | 3 | $2\sqrt{3}$ | <u>5</u> |

| Find the answer when this fraction is raised to its exponent | а 5 | 3 | ^c 4 |
|--|----------------|----------------|----------------|
| 4_{10} | J | • | 2 |
| $\left(\frac{1}{2}\right)^{\left(\frac{1}{2}\right)}$ | ^d 1 | ^e 3 | ^f 5 |
| `9' | 2 | 2 | 3 |

| Find the answer when this fraction is raised to its exponent | ^a 2 | $\frac{b}{2\sqrt{3}}$ | $\frac{c}{2\sqrt{4}}$ |
|--|----------------|-----------------------|-----------------------|
| 49. (-1) | 2 | 3 | 4 |
| $\left(\frac{1}{4}\right)^{\left(\frac{1}{2}\right)}$ | d | e 2./2 | ^f 2 |
| 4 | _ | 273 | 7 |



| Find the answer when this fraction is raised to its exponent | a $2\sqrt{2}$ | $\frac{1}{5\sqrt{2}}$ | 2 |
|--|---------------|-----------------------|---------------|
| $\left(\frac{2}{4}\right)^{\left(\frac{1}{2}\right)}$ | $\frac{1}{5}$ | 1 | $\frac{1}{2}$ |

Find the answer when this fraction is raised to its exponent
$$\begin{pmatrix} 25 \\ 9 \end{pmatrix} \begin{pmatrix} \frac{-1}{2} \end{pmatrix} \begin{pmatrix} \frac{1}{2} \\ \frac{3}{3} \end{pmatrix} \begin{pmatrix} \frac{1}{3} \\ \frac{3}{2} \\ \frac{1}{3} \end{pmatrix} \begin{pmatrix} \frac{3}{2} \\ \frac{1}{3} \end{pmatrix}$$

| 7 Find the answer when this fraction is raised to its exponent | ^a 11 5 | $\frac{1}{2\sqrt{4}}$ | $11\sqrt{3}$ |
|--|-------------------|-----------------------|-----------------------|
| $(\frac{4}{121})^{(\frac{-1}{2})}$ | $\frac{11}{2}$ | $\frac{1}{2}$ | $\frac{1}{2\sqrt{3}}$ |