



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

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

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

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

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

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

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

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

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

a	b	c
$\frac{1}{4}$	$\frac{\sqrt{3}}{11}$	$\frac{\sqrt{4}}{11}$
d	e	f
$\frac{1}{11}$	$\frac{2}{5}$	1

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

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

a	b	c
$\frac{1}{4}$	1	$\sqrt{3}$
d	e	f
4	$\frac{1}{7}$	$\sqrt{4}$

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

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

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