Math worksheet on *'Exponents - Negative Fractional Exponents with Unit 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

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

a	b	c
$\frac{1}{5}$	5	$7\sqrt{2}$
d	**e**	**f**
7	$\frac{5}{\sqrt{4}}$	$\frac{1}{4}$

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
3	$\frac{1}{2}$	$\frac{3\sqrt{4}}{4}$
d	**e**	**f**
$\frac{3}{\sqrt{4}}$	2	1

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

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

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

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

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

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