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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'*

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

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

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

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

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

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

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

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

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

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

$$\left(\frac{49}{9}\right)^{\left(\frac{-1}{2}\right)}$$

a	b	c
$\frac{3}{7}$	3	5
d	**e**	**f**
$3\sqrt{4}$	1	2

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

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

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

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

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

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

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

$$\left(\frac{4}{121}\right)^{\left(\frac{-1}{2}\right)}$$

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

