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Math worksheet on *'Exponents - Negative Fractional Exponents with Fractional Base (Level 2)'*. Part of a broader unit on *'Exponents - Negative and Fractional Bases and Exponents'*
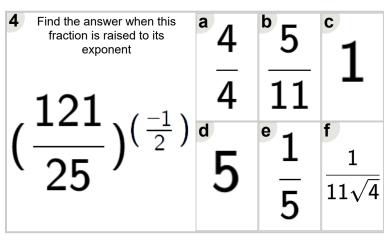
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1 Find the answer when this fraction is raised to its exponent

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

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

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

$$\left(\frac{49}{121}\right)^{\left(\frac{-1}{2}\right)}$$

a	b	c
$\dfrac{11}{7}$	$\dfrac{1}{4}$	$\dfrac{11}{2}$
d $\dfrac{11}{3}$	**e** $\dfrac{4}{7}$	**f** 1

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

$$\left(\frac{27}{125}\right)^{\left(\frac{-1}{3}\right)}$$

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

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

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

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

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

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

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

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

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

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

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

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

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