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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a 4	**b** $\frac{5}{11}$	**c** $\frac{2}{11\sqrt{2}}$
d $\frac{7}{11}$	**e** $\frac{7}{5}$	**f** 1