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

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

a $\frac{5\sqrt{2}}{3}$ **b** $\frac{5}{2}$ **c** $\frac{4}{\sqrt{3}}$

d 5 **e** 1 **f** $5\sqrt{3}$

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

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

a $\frac{1}{\sqrt{2}}$ **b** 4 **c** $11\sqrt{4}$

d 11 **e** 1 **f** $\frac{11\sqrt{3}}{2}$

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

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

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

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

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

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

a 7 **b** $\frac{5}{\sqrt{4}}$ **c** $\frac{1}{5}$

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

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

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

a 3 **b** $\frac{3\sqrt{4}}{4}$ **c** 2

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

