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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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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