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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a $\frac{4}{3}$ **b** 1 **c** $\frac{1}{3}$

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