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Math worksheet on *'Exponents - Negative Fractional Exponents with Non-Square Integer Base - Exponent to Simplified Radical (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 number is raised to its exponent

$50^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{4\sqrt{2}}$ **b** $\frac{1}{5\sqrt{2}}$ **c** $\frac{1}{5}$

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

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

$144^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{12\sqrt{3}}$ **b** $\frac{1}{1}$ **c** $\frac{1}{3}$

d $\frac{1}{12}$ **e** $\frac{1}{12\sqrt{4}}$ **f** $\frac{1}{12\sqrt{2}}$

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

$108^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{\sqrt{3}}$ **b** $\frac{1}{6}$ **c** $\frac{1}{4\sqrt{3}}$

d $\frac{1}{2\sqrt{3}}$ **e** $\frac{1}{6\sqrt{3}}$ **f** $\frac{1}{5\sqrt{3}}$

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

$250^{\left(\frac{-1}{3}\right)}$

a $\frac{1}{2\sqrt[3]{2}}$ **b** $\frac{1}{4\sqrt[3]{2}}$ **c** $\frac{1}{5}$

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

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

$32^{\left(\frac{-1}{3}\right)}$

a $\frac{1}{2\sqrt[3]{3}}$ **b** $\frac{1}{5\sqrt[3]{4}}$ **c** $\frac{1}{2\sqrt[3]{4}}$

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

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

$128^{\left(\frac{-1}{3}\right)}$

a $\frac{1}{4}$ **b** $\frac{1}{\sqrt[3]{2}}$ **c** $\frac{1}{5\sqrt[3]{2}}$

d $\frac{1}{4\sqrt[3]{2}}$

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

$48^{\left(\frac{-1}{2}\right)}$

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

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