Math worksheet on *'Exponents - Negative Fractiona Exponents with Non-Square Integer Base - Exponen to Simplified Radical (Level 1)'*. Part of a broader uni on *'Exponents - Fractional Bases and Exponents - Practice'*

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

$150^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{\sqrt{6}}$	**b** $\frac{1}{4\sqrt{6}}$	**c** $\frac{1}{3\sqrt{6}}$
d $\frac{1}{5\sqrt{6}}$	**e** $\frac{1}{5}$	**f** $\frac{1}{2\sqrt{6}}$

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

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

a $\frac{1}{5\sqrt{3}}$	**b** $\frac{1}{4\sqrt{3}}$	**c** $\frac{1}{2\sqrt{3}}$
d $\frac{1}{6\sqrt{3}}$	**e** $\frac{1}{6}$	**f** $\frac{1}{\sqrt{3}}$

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

$96^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{3\sqrt{6}}$	**b** $\frac{1}{4\sqrt{2}}$	**c** $\frac{1}{\sqrt{6}}$
d $\frac{1}{4}$	**e** $\frac{1}{4\sqrt{6}}$	**f** $\frac{1}{5\sqrt{6}}$

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

$80^{\left(\frac{-1}{2}\right)}$

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

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

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

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

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

$180^{\left(\frac{-1}{2}\right)}$

a $\frac{1}{6}$	**b** $\frac{1}{\sqrt{5}}$	**c** $\frac{1}{6\sqrt{5}}$
d $\frac{1}{6\sqrt{4}}$	**e** $\frac{1}{3\sqrt{5}}$	**f** $\frac{1}{4\sqrt{5}}$

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

$32^{\left(\frac{-1}{2}\right)}$

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