Math worksheet on *'Exponents - Negative Fractiona Exponents with Non-Square Integer Base - Factorec Exponent to Answer (Level 2)'*. Part of a broader uni on *'Exponents - Fractional Bases and Exponents - Practice'*

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

$$(2 \cdot 3 \cdot 3 \cdot 3)^{\left(\frac{-1}{3}\right)}$$

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

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

$$(2 \cdot 2 \cdot 5 \cdot 5)^{\left(\frac{-1}{2}\right)}$$

a	b	c	d	e	f
$\frac{1}{3}$	$\frac{1}{10\sqrt{4}}$	$\frac{1}{1}$	$\frac{1}{2}$	$\frac{1}{10\sqrt{2}}$	$\frac{1}{10}$

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

$$(2 \cdot 2 \cdot 5)^{\left(\frac{-1}{2}\right)}$$

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

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

$$(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3)^{\left(\frac{-1}{3}\right)}$$

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

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

$$(2 \cdot 2 \cdot 2 \cdot 3 \cdot 3)^{\left(\frac{-1}{2}\right)}$$

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

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

$$(2 \cdot 2 \cdot 2 \cdot 2 \cdot 5)^{\left(\frac{-1}{2}\right)}$$

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

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

$$(2 \cdot 3 \cdot 3 \cdot 3)^{\left(\frac{-1}{2}\right)}$$

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