



Math worksheet on 'Exponents - Negative Fractional Exponents with Square Integer Base - Factored Exponent to Answer (Level 2)'. Part of a broader unit on 'Exponents - Negative Bases and Exponents - Practice'

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

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

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

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

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

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

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

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

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

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

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

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

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

$$(3 \cdot 3 \cdot 3 \cdot 3)^{\left(\frac{-1}{4}\right)}$$

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

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

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

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

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

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

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