



Exponents - Negative Fractional Exponents with Non-Square Integer Base

- Factored Exponent to Answer

1 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	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{6\sqrt{4}}$		$\frac{1}{1}$		$\frac{1}{4}$		$\frac{1}{6}$		$\frac{1}{5}$		$\frac{1}{6\sqrt{2}}$

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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{4\sqrt{4}}$		$\frac{1}{1}$		$\frac{1}{4\sqrt{3}}$		$\frac{1}{4}$		$\frac{1}{4\sqrt{2}}$		$\frac{1}{2}$

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

$$(3 \cdot 5 \cdot 5)^{\left(\frac{-1}{2}\right)}$$

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{5}$		$\frac{1}{5\sqrt{3}}$		$\frac{1}{4\sqrt{3}}$		$\frac{1}{5\sqrt{4}}$		$\frac{1}{5\sqrt{2}}$		$\frac{1}{\sqrt{3}}$

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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{12}$		$\frac{1}{3}$		$\frac{1}{2}$		$\frac{1}{12\sqrt{2}}$		$\frac{1}{12\sqrt{3}}$		$\frac{1}{1}$

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

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

A	1	B	1	C	1	D	1	E	1
	$\frac{1}{4\sqrt{5}}$		$\frac{1}{2\sqrt{5}}$		$\frac{1}{\sqrt{5}}$		$\frac{1}{2\sqrt{3}}$		$\frac{1}{2}$

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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{2\sqrt{2}}$		$\frac{1}{3\sqrt{2}}$		$\frac{1}{4\sqrt{3}}$		$\frac{1}{\sqrt{2}}$		$\frac{1}{4\sqrt{4}}$		$\frac{1}{4\sqrt{2}}$

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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{3\sqrt{6}}$		$\frac{1}{\sqrt{6}}$		$\frac{1}{4}$		$\frac{1}{4\sqrt{4}}$		$\frac{1}{4\sqrt{6}}$		$\frac{1}{5\sqrt{6}}$

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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$\frac{1}{4\sqrt{3}}$		$\frac{1}{\sqrt{3}}$		$\frac{1}{5\sqrt{3}}$		$\frac{1}{2}$		$\frac{1}{3\sqrt{3}}$		$\frac{1}{2\sqrt{3}}$