



## 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

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

A	1	B	1	C	1	D	1	E	1	F	1
	$5\sqrt{3}$		$2\sqrt{3}$		$3\sqrt{3}$		$\sqrt{3}$		$6\sqrt{3}$		$\overline{6}$

**2** 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
	$5\sqrt{3}$		$\overline{5}$		$4\sqrt{3}$		$5\sqrt{4}$		$5\sqrt{2}$		$\sqrt{3}$

**3** 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	1	B	1	C	1	D	1	E	1	F	1
	$4\sqrt{2}$		$\overline{6}$		$6\sqrt{3}$		$6\sqrt{2}$		$2\sqrt{2}$		$\sqrt{2}$

**4** 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
	$5\sqrt{3}$		$\overline{2}$		$2\sqrt{3}$		$3\sqrt{3}$		$\sqrt{3}$		$4\sqrt{3}$

**5** 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
	$\overline{4}$		$4\sqrt{6}$		$4\sqrt{4}$		$3\sqrt{6}$		$\sqrt{6}$		$5\sqrt{6}$

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

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

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

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

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

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

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

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

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