Name

Exponents - Fractional Exponents with Non-Square Integer Base - Factored Exponent to Answer

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

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

A	B	C	D	E
$2\sqrt[3]{4}$	2	$2\sqrt[3]{2}$	$\sqrt[3]{4}$	$3\sqrt[3]{4}$

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

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

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

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

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

$$(2 \cdot 3 \cdot 3 \cdot 3 \cdot 3)^{\left(\frac{1}{4}\right)}$$

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

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

6 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
$5\sqrt{6}$	$2\sqrt{6}$	$\sqrt{6}$	$3\sqrt{2}$	$3\sqrt{6}$	3

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

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

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

8 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	B	C	D	E	F
$2\sqrt{3}$	$3\sqrt{3}$	6	$\sqrt{3}$	$6\sqrt{3}$	$5\sqrt{3}$