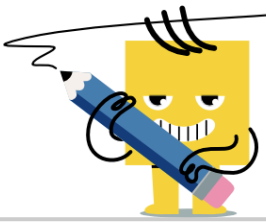
Name



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

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

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

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

3 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
$10\sqrt{4}$	1	4	2	3	10

4 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
$\sqrt{3}$	6	$2\sqrt{3}$	$5\sqrt{3}$	$6\sqrt{3}$	$3\sqrt{3}$

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

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

7 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	B	C	D	E	F
3	5	$12\sqrt{4}$	12	$12\sqrt{2}$	1

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

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

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