



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

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

a	b	c
3	5	$3\sqrt{3}$

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

d	e	f
$3\sqrt{2}$	2	1

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

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

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

3 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
1	$2\sqrt[3]{3}$	2	3	$2\sqrt[3]{4}$	5

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
6	4	1	$6\sqrt{2}$	3	2

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

a	b	c
$2\sqrt{2}$	$2\sqrt{3}$	4

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

d	e	f
3	2	1

6 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
5	2	6	3	1	$6\sqrt[3]{4}$

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

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

a	b	c	d	e
4	3	5	1	2