Math worksheet on *'Exponents - Fractional Exponent with Non-Square Integer Base - Factored Exponent t Answer (Level 2)'*. Part of a broader unit on *'Exponen - Fractional Bases and Exponents - Practice'*

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

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

a	b	c	d	e	f
$4\sqrt{4}$	$3\sqrt{3}$	$\sqrt{3}$	$5\sqrt{3}$	$4\sqrt{2}$	$4\sqrt{3}$

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

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

a	b	c	d	e	f
$4\sqrt[3]{6}$	$2\sqrt[3]{6}$	$3\sqrt[3]{6}$	3	$\sqrt[3]{6}$	$5\sqrt[3]{6}$

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

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

a	b	c	d	e	f
$3\sqrt{2}$	3	$\sqrt{6}$	$5\sqrt{6}$	$2\sqrt{6}$	$3\sqrt{6}$

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

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

a	b	c	d	e	f
$2\sqrt{3}$	$3\sqrt{5}$	$\sqrt{5}$	$2\sqrt{5}$	$5\sqrt{5}$	2

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

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

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

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

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

a	b	c	d	e	f
$4\sqrt{6}$	$2\sqrt{6}$	$\sqrt{6}$	$2\sqrt{4}$	2	$3\sqrt{6}$

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

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

a	b	c	d	e	f
$\sqrt{6}$	$3\sqrt{6}$	$2\sqrt{6}$	$4\sqrt{6}$	$5\sqrt{6}$	5