

Math worksheet on 'Exponents - Negative Fractional Exponents with Non-Square Integer Base -Exponent to Simplified Radical (Level 2)'. Part of a broader unit on 'Exponents - Negative and Fractional Bases and Exponents'

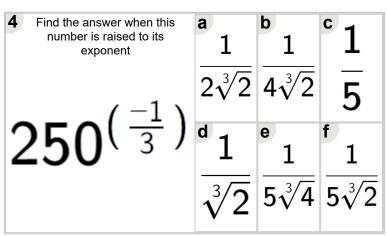
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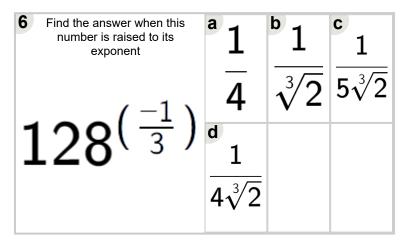
Find the answer when this number is raised to its exponent	a 1	1	<sup>c</sup> 1
- $(-1)$	$4\sqrt{2}$	$\sqrt{5}$	<u>5</u>
$50^{(\frac{7}{2})}$	d 1	e 1	f 1
	$\sqrt{5}\sqrt{4}$	$\sqrt{2}$	$3\sqrt{2}$

Find the answer when this number is raised to its exponent	<b>a</b> 1	<sup>b</sup> 1	<sup>c</sup> 1
$144^{\left(\frac{-1}{2}\right)}$	$12\sqrt{3}$	$\overline{1}$	3
	1	<b>e</b> 1	f 1
	12	$12\sqrt{4}$	$12\sqrt{2}$

Find the answer when this number is raised to its exponent	<sup>a</sup> 1	<sup>b</sup> 1	1
(-1)	$\sqrt{3}$	6	$4\sqrt{3}$
$108^{(\frac{1}{2})}$	d 1	e 1	f 1
	$2\sqrt{3}$	$6\sqrt{3}$	$\sqrt{5\sqrt{3}}$



Find the answer when this number is raised to its exponent	a 1	b 1	1
(-1)	$2\sqrt[3]{3}$	$\overline{5\sqrt[3]{4}}$	$2\sqrt[3]{4}$
$32^{(\frac{3}{3})}$	<sup>d</sup> 1	e 1	<sup>f</sup> 1
	2	$4\sqrt[3]{4}$	$\sqrt[3]{4}$



7 Find the answer when this number is raised to its exponent	a 1	b 1	<sup>c</sup> 1
( -1 )	$4\sqrt{2}$	$2\sqrt{3}$	4
$48^{(\frac{1}{2})}$	<sup>d</sup> 1	e 1	f 1
	$\sqrt{3}$	$\overline{5\sqrt{3}}$	$4\sqrt{3}$