Name:			



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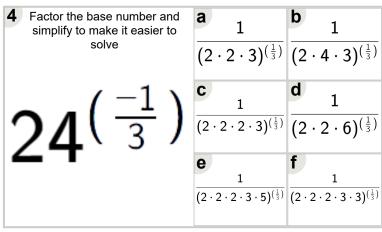
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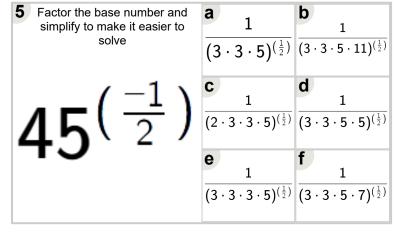
Math worksheet on 'Exponents - Negative Fractional Exponents with Non-Square Integer Base - Exponent to Factored Exponent (Level 2)'. Part of a broader unit on 'Exponents - Negative and Fractional Bases and Exponents'
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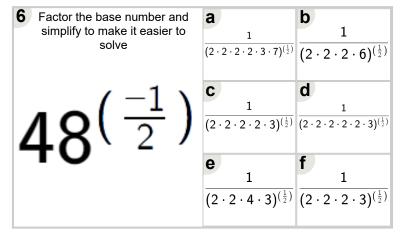
1 Factor the base number and simplify to make it easier to solve	$\frac{\mathbf{a}}{(2\cdot 25\cdot 5)^{(\frac{1}{3})}}$	$\frac{1}{(2\cdot 5\cdot 5\cdot 5)^{(\frac{1}{3})}}$
$250^{(\frac{-1}{3})}$	$\frac{\mathbf{c}}{(5\cdot 5\cdot 5)^{(\frac{1}{3})}}$	$\frac{1}{(2\cdot 5\cdot 5\cdot 5\cdot 5)^{(\frac{1}{3})}}$
	$\frac{\mathbf{e}}{(2 \cdot 5 \cdot 25)^{(\frac{1}{3})}}$	$\frac{1}{(2\cdot 5\cdot 5\cdot 5\cdot 7)^{(\frac{1}{3})}}$

2 Factor the base number and simplify to make it easier to solve	$\frac{1}{(2\cdot 2\cdot 3\cdot 3)^{(\frac{1}{2})}}$	$\frac{1}{(2\cdot 2\cdot 3\cdot 3\cdot 3\cdot 5)^{(\frac{1}{2})}}$
$108^{\left(\frac{-1}{2}\right)}$	$\frac{\mathbf{c}}{(2\cdot 2\cdot 9\cdot 3)^{(\frac{1}{2})}}$	$\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
100	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	$\frac{1}{(2\cdot 3\cdot 3\cdot 3)^{(\frac{1}{2})}}$

Factor the base number and simplify to make it easier to solve	$\frac{1}{(2\cdot 2\cdot 2\cdot 5)^{(\frac{1}{3})}}$	$\frac{\mathbf{b}}{(2 \cdot 2 \cdot 5)^{(\frac{1}{3})}}$
$\Delta O^{\left(\frac{-1}{3}\right)}$	$\frac{\mathbf{c}}{(2\cdot 2\cdot 2)^{(\frac{1}{3})}}$	$\frac{1}{(2\cdot 2\cdot 2\cdot 5\cdot 5)^{(\frac{1}{3})}}$
10	$\frac{1}{(2\cdot 2\cdot 2\cdot 2\cdot 5)^{\left(\frac{1}{3}\right)}}$	$\frac{1}{(2\cdot 2\cdot 10)^{\left(\frac{1}{3}\right)}}$







7 Factor the base number and simplify to make it easier to solve	$\begin{array}{c} \textbf{1} \\ (2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})} \end{array}$	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5)^{(\frac{1}{2})}}$
$144^{(\frac{-1}{2})}$	$\frac{\mathbf{C}}{(2\cdot 4\cdot 2\cdot 3\cdot 3)^{(\frac{1}{2})}}$	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
4 1 1	$\frac{1}{(2\cdot 2\cdot 2\cdot 3\cdot 3)^{(\frac{1}{2})}}$	$\frac{1}{(2\cdot 2\cdot 4\cdot 3\cdot 3)^{(\frac{1}{2})}}$