Name:			

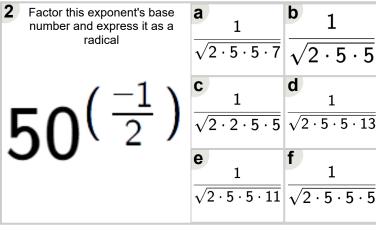


Math worksheet on 'Exponents - Negative Fractiona Exponents with Non-Square Integer Base - Exponen to Factored Radical (Level 1)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Practice'

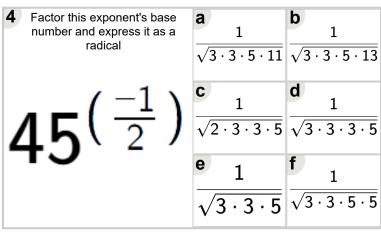
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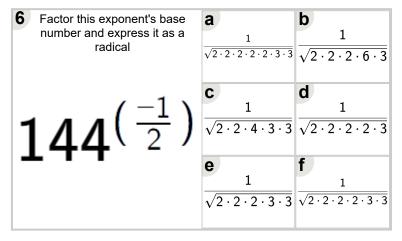
1 Factor this exponent's base number and express it as a radical	$\frac{\mathbf{a}}{\sqrt{2\cdot 2\cdot 3\cdot 3}}$	$\frac{1}{\sqrt{2\cdot 2\cdot 2\cdot 2\cdot 3\cdot 3}}$
$72^{\left(\frac{-1}{2}\right)}$	$\frac{\mathbf{c}}{\sqrt{2\cdot 2\cdot 2\cdot 3\cdot 3}}$	$\frac{\mathbf{d}}{\sqrt{2\cdot 4\cdot 3\cdot 3}}$
1 4	$\frac{\mathbf{e}}{\sqrt{2\cdot 2\cdot 2\cdot 9}}$	$\frac{1}{\sqrt{2\cdot 2\cdot 2\cdot 3}}$



3 Factor this exponent's base number and express it as a radical	$\frac{\mathbf{a}}{\sqrt{2\cdot 3\cdot 5\cdot 5}}$	$\frac{\mathbf{b}}{\sqrt{2\cdot 15\cdot 5}}$
$150^{\left(\frac{-1}{2}\right)}$	$\frac{\mathbf{c}}{\sqrt{2\cdot 5\cdot 5}}$	$\frac{d}{\sqrt{3\cdot 5\cdot 5}}$
	$\frac{\mathbf{e}}{\sqrt{2\cdot 3\cdot 5\cdot 5\cdot 7}}$	$\frac{1}{\sqrt{2\cdot 3\cdot 25}}$



Factor this exponent's base number and express it as a radical	$\frac{1}{\sqrt{2\cdot 2\cdot 5\cdot 5\cdot 7}}$	$\frac{1}{\sqrt{2\cdot 2\cdot 2\cdot 5\cdot 5}}$
$100^{\left(\frac{-1}{2}\right)}$	$\frac{\mathbf{c}}{\sqrt{2\cdot 2\cdot 5\cdot 5}}$	$\frac{d}{\sqrt{2\cdot 2\cdot 5}}$
100	$\frac{\mathbf{e}}{\sqrt{2\cdot 2\cdot 5\cdot 5\cdot 11}}$	$\frac{1}{\sqrt{2\cdot 5\cdot 5}}$



_		-
7 Factor this exponent's base number and express it as a radical	$\frac{\mathbf{a}}{\sqrt{2\cdot 3\cdot 3\cdot 5}}$	$\frac{1}{\sqrt{2\cdot 3\cdot 3\cdot 13}}$
$18^{(\frac{-1}{2})}$	$\frac{\mathbf{c}}{\sqrt{2\cdot 3\cdot 3}}$	$\frac{\mathbf{d}}{\sqrt{2\cdot 3\cdot 3\cdot 11}}$
10	$\frac{\mathbf{e}}{\sqrt{2\cdot 3\cdot 3\cdot 3}}$	$\frac{\mathbf{f}}{\sqrt{2\cdot 3\cdot 3\cdot 7}}$