



Math worksheet on 'Exponents - Fractional Exponents with Non-Square Integer Base - Exponent to Unsimplified Radical (Level 1)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Intro'

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1 Find the radical that is the same as this number raised to its exponent

a	b	c
$2\sqrt{75}$	$\sqrt{75}$	$\frac{1}{\sqrt{75}}$

$75^{(\frac{1}{2})}$

d	e	f
$\sqrt{75}^2$	$4\sqrt{75}$	1

2 Find the radical that is the same as this number raised to its exponent

a	b	c
$\sqrt{80}$	$3\sqrt{80}$	$\frac{1}{\sqrt{80}}$

$80^{(\frac{1}{2})}$

d	e	f
$5\sqrt{80}$	1	$2\sqrt{80}$

3 Find the radical that is the same as this number raised to its exponent

a	b	c
1	$\sqrt{144}^2$	$4\sqrt{144}$

$144^{(\frac{1}{2})}$

d	e	f
$5\sqrt{144}$	$\sqrt{144}$	$\frac{1}{\sqrt{144}}$

4 Find the radical that is the same as this number raised to its exponent

a	b	c
$3\sqrt{50}$	$\sqrt{50}$	$4\sqrt{50}$

$50^{(\frac{1}{2})}$

d	e	f
1	$\frac{1}{\sqrt{50}}$	$\sqrt{50}^2$

5 Find the radical that is the same as this number raised to its exponent

a	b	c
$5\sqrt{32}$	$2\sqrt{32}$	$\frac{1}{\sqrt{32}}$

$32^{(\frac{1}{2})}$

d	e	f
$\sqrt{32}$	1	$4\sqrt{32}$

6 Find the radical that is the same as this number raised to its exponent

a	b	c
$4\sqrt{45}$	$3\sqrt{45}$	$5\sqrt{45}$

$45^{(\frac{1}{2})}$

d	e	f
$\sqrt{45}$	$\frac{1}{\sqrt{45}}$	1

7 Find the radical that is the same as this number raised to its exponent

a	b	c
$5\sqrt{100}$	$\sqrt{100}^2$	1

$100^{(\frac{1}{2})}$

d	e	f
$3\sqrt{100}$	$\frac{1}{\sqrt{100}}$	$\sqrt{100}$