



Math worksheet on 'Exponents - Fractional Exponents with Square Integer Base - Exponent to Radical (Level 2)'. 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
$4\sqrt[3]{8}$	$3\sqrt[3]{8}$	$\sqrt[3]{8}$
d	e	f
$\sqrt[3]{4}$	$2\sqrt[3]{8}$	1

$8\left(\frac{1}{3}\right)$

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

a	b	c
1	$\sqrt{25}$	$\sqrt{2}$
d	e	f
$3\sqrt{25}$	$\frac{1}{\sqrt{25}}$	$\sqrt{25^2}$

$25\left(\frac{1}{2}\right)$

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

a	b	c
$3\sqrt{16}$	$\sqrt{16}$	1
d	e	f
$\sqrt{2}$	$2\sqrt{16}$	$4\sqrt{16}$

$16\left(\frac{1}{2}\right)$

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

a	b	c
$3\sqrt{9}$	$2\sqrt{9}$	$\sqrt{4}$
d	e	f
$4\sqrt{9}$	1	$\sqrt{9}$

$9\left(\frac{1}{2}\right)$

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

a	b	c
$3\sqrt{4}$	$2\sqrt{4}$	1
d	e	f
$\sqrt{3}$	$4\sqrt{4}$	$\sqrt{4}$

$4\left(\frac{1}{2}\right)$

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

a	b	c
$3\sqrt{36}$	$2\sqrt{36}$	$\sqrt{36}$
d	e	f
$5\sqrt{36}$	$4\sqrt{36}$	1

$36\left(\frac{1}{2}\right)$

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

a	b	c
$2\sqrt[4]{81}$	$\frac{1}{\sqrt[4]{81}}$	$\sqrt[4]{81^4}$
d	e	
1	$\sqrt[4]{81}$	

$81\left(\frac{1}{4}\right)$