



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

$$27^{\left(\frac{1}{3}\right)}$$

a	b	c
$3\sqrt[3]{27}$	1	$5\sqrt[3]{27}$
d	e	f
$\sqrt[3]{27}$	$4\sqrt[3]{27}$	$2\sqrt[3]{27}$

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

$$32^{\left(\frac{1}{5}\right)}$$

a	b	c
$2\sqrt[5]{32}$	$5\sqrt[5]{32}$	$4\sqrt[5]{32}$
d	e	f
1	$\sqrt[5]{32}$	$3\sqrt[5]{32}$

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

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

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

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

$$64^{\left(\frac{1}{3}\right)}$$

a	b	c
1	$\frac{1}{\sqrt[3]{64}}$	$4\sqrt[3]{64}$
d	e	f
$\sqrt[3]{64}$	$3\sqrt[3]{64}$	$2\sqrt[3]{64}$

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

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

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

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

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

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

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

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

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