mobius

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

Learn online:

app.mobius.academy/math/units/exponents_fractional_bases_and_exponents_intro/

1 Find the answer when this number is raised to its exponent

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

a	b	c
12	3	2
d	**e**	**f**
1	$12\sqrt{2}$	4

2 Find the answer when this number is raised to its exponent

$108^{\left(\frac{1}{2}\right)}$

a	b	c
$6\sqrt{4}$	6	$\sqrt{3}$
d	**e**	**f**
$5\sqrt{3}$	$6\sqrt{3}$	$3\sqrt{3}$

3 Find the answer when this number is raised to its exponent

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

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

4 Find the answer when this number is raised to its exponent

$54^{\left(\frac{1}{2}\right)}$

a	b	c
$3\sqrt{6}$	3	$3\sqrt{2}$
d	**e**	
$\sqrt{6}$	$4\sqrt{6}$	

5 Find the answer when this number is raised to its exponent

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

a	b	c
$4\sqrt{3}$	$5\sqrt{4}$	$\sqrt{3}$
d	**e**	**f**
5	$3\sqrt{3}$	$5\sqrt{3}$

6 Find the answer when this number is raised to its exponent

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

a	b	c
2	10	1
d	**e**	**f**
$10\sqrt{2}$	3	$10\sqrt{4}$

7 Find the answer when this number is raised to its exponent

$72^{\left(\frac{1}{2}\right)}$

a	b	c
$6\sqrt{2}$	$2\sqrt{2}$	$\sqrt{2}$
d	**e**	**f**
$6\sqrt{3}$	$6\sqrt{4}$	6