Name:



Math worksheet on 'Exponents - Fractional Exponent with Fractional Base (Level 2)'. Part of a broader uni on 'Exponents - Fractional Bases and Exponents - Practice'

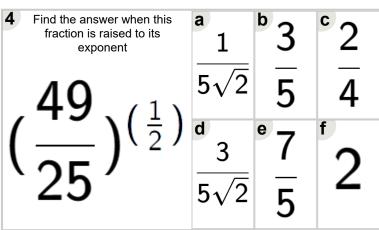
Learn online:

app.mobius.academy/math/units/exponents fractional bases and exponents practic

Find the answer when this fraction is raised to its exponent	^a 2	^b 4	3
9 (1)	5	<u>5</u>	$5\sqrt{4}$
$\left(\frac{1}{2}\right)^{\left(\frac{1}{2}\right)}$	d	e 3	f 1
`25'	3	5	$5\sqrt{3}$

Find the answer when this fraction is raised to its exponent	$\frac{5}{3\sqrt{2}}$	4	1
$(\frac{1}{9})^{(\frac{1}{2})}$	$\frac{2\sqrt{3}}{3\sqrt{4}}$	^e 5/3	$\frac{1}{2}$

Find the answer when this fraction is raised to its exponent	a 2	^b 1	° 3
9 (1)	3	$\overline{11}$	$\overline{2}$
$\left(\frac{3}{121}\right)^{(\frac{1}{2})}$	^d 3	e 1	f ب
121	$\overline{11}$	1	J



Find the answer when this fraction is raised to its exponent	^a 5	b 1	5
125 (1)	2		$2\sqrt[3]{4}$
$\left(\frac{123}{9}\right)^{\left(\frac{1}{3}\right)}$	d L	^e 1	^f 2
δ ΄	3	2	5

Find the answer when this fraction is raised to its exponent
$$\left(\frac{4}{121} \right)^{\left(\frac{1}{2}\right)} \frac{1}{11} = \frac{1}{11} \begin{bmatrix} \frac{3}{11\sqrt{2}} & 1 \\ \frac{3}{11\sqrt{2}} & 1 \end{bmatrix}$$

7 Find the answer when this fraction is raised to its exponent	^a 1	^b 3	_د
.27.(1)	3	2	J
$\left(\frac{1}{2}\right)^{\left(\frac{\pi}{3}\right)}$	d 1	e $3\sqrt[3]{2}$	f 1
` 8 ′	Т	2	$2\sqrt[3]{4}$