



Math worksheet on 'Exponents - Fractional Exponents with Integer Base - Explanation to Answer (Level 1)'. Part of a broader unit on 'Exponents - Fractional Bases and Exponents - Intro'

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**1** Given the hint, what is the fractional exponent the same as?

a	b	c
4	3	9

$9^{(\frac{1}{2})} \cdot 9^{(\frac{1}{2})} = 9$

$9^{(\frac{1}{2})} = ?$

d	e	f
$\frac{1}{\sqrt{2}9}$	2	$\sqrt{2}9$

**2** Given the hint, what is the fractional exponent the same as?

$25^{(\frac{1}{2})} \cdot 25^{(\frac{1}{2})} = 25$

$25^{(\frac{1}{2})} = ?$

a	b	c	d	e	f
4	$\sqrt{2}25$	6	$\frac{1}{\sqrt{2}25}$	5	25

**3** Given the hint, what is the fractional exponent the same as?

$36^{(\frac{1}{2})} \cdot 36^{(\frac{1}{2})} = 36$

$36^{(\frac{1}{2})} = ?$

a	b	c	d	e	f
5	$\sqrt{2}36$	6	7	36	$\frac{1}{\sqrt{2}36}$

**4** Given the hint, what is the fractional exponent the same as?

a	b	c
4	3	1

$4^{(\frac{1}{2})} \cdot 4^{(\frac{1}{2})} = 4$

$4^{(\frac{1}{2})} = ?$

d	e	f
2	$\frac{1}{\sqrt{2}4}$	$\sqrt{2}4$

**5** Given the hint, what is the fractional exponent the same as?

$16^{(\frac{1}{2})} \cdot 16^{(\frac{1}{2})} = 16$

$16^{(\frac{1}{2})} = ?$

a	b	c	d	e	f
3	$\frac{1}{\sqrt{2}16}$	16	5	$\sqrt{2}16$	4