Name

Exponents - Fractional Exponents with Integer Base - Explanation to Answer

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

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

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

A	B	C
1	2	$\sqrt[2]{4}$
D	**E**	**F**
3	4	$\frac{1}{\sqrt[2]{4}}$

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
5	$\frac{1}{\sqrt[2]{25}}$	4	25	$\sqrt[2]{25}$	6

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

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

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

A	B	C
4	3	9
D	**E**	**F**
$\frac{1}{\sqrt[2]{9}}$	$\sqrt[2]{9}$	2

4 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
$\sqrt[2]{16}$	3	$\frac{1}{\sqrt[2]{16}}$	5	4	16

5 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
$\sqrt[2]{36}$	$\frac{1}{\sqrt[2]{36}}$	7	36	6	5