



Exponents - Fractional Exponents with Integer Base - Explanation to Radical



1 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
$2\sqrt{16}$ | B
$\frac{1}{\sqrt{16}}$ | C
$\sqrt{4}$ | D
$\sqrt{16}$ | E
1 | F
$4\sqrt{16}$ |
|-------------------|----------------------------|-----------------|------------------|---------------|-------------------|

2 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
$\frac{1}{\sqrt{9}}$ | B
1 | C
$4\sqrt{9}$ |
| D
$\sqrt{3}$ | E
$2\sqrt{9}$ | F
$\sqrt{9}$ |

3 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
$\sqrt{2}$ | B
$\sqrt{4}^2$ | C
$4\sqrt{4}$ |
| D
$\sqrt{4}$ | E
1 | F
$\frac{1}{\sqrt{4}}$ |

4 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
$\sqrt{25}$ | B
$4\sqrt{25}$ | C
$3\sqrt{25}$ | D
$5\sqrt{25}$ | E
1 | F
$2\sqrt{25}$ |
|------------------|-------------------|-------------------|-------------------|---------------|-------------------|

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
1 | B
$\sqrt{36}$ | C
$\sqrt{36}^2$ | D
$4\sqrt{36}$ | E
$2\sqrt{36}$ | F
$\frac{1}{\sqrt{36}}$ |
|---------------|------------------|--------------------|-------------------|-------------------|----------------------------|