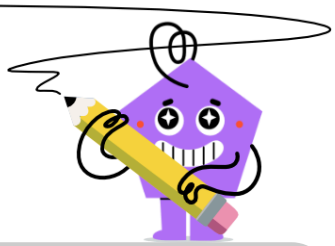
Name

Exponents - Fractional Exponents with Integer Base - Explanation to Answer



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	B	C	D	E	F
16	5	$\sqrt[2]{16}$	$\frac{1}{\sqrt[2]{16}}$	4	3

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

$$27^{(\frac{1}{3})} \cdot 27^{(\frac{1}{3})} \cdot 27^{(\frac{1}{3})} = 27$$

$$27^{(\frac{1}{3})} = ?$$

A	B	C	D	E	F
$\frac{1}{\sqrt[3]{27}}$	4	2	3	$\sqrt[3]{27}$	27

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

$$125^{(\frac{1}{3})} \cdot 125^{(\frac{1}{3})} \cdot 125^{(\frac{1}{3})} = 125$$

$$125^{(\frac{1}{3})} = ?$$

A	B	C	D	E	F
4	5	$\sqrt[3]{125}$	$\frac{1}{\sqrt[3]{125}}$	125	6

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

$$216^{(\frac{1}{3})} \cdot 216^{(\frac{1}{3})} \cdot 216^{(\frac{1}{3})} = 216$$

$$216^{(\frac{1}{3})} = ?$$

A	B	C	D	E	F
$\frac{1}{\sqrt[3]{216}}$	5	6	$\sqrt[3]{216}$	216	7

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

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

$$32^{(\frac{1}{5})} \cdot 32^{(\frac{1}{5})} \cdot 32^{(\frac{1}{5})} \cdot 32^{(\frac{1}{5})} \cdot 32^{(\frac{1}{5})} = 32$$

$$32^{(\frac{1}{5})} = ?$$

A	B	C	D	E	F
3	2	$\frac{1}{\sqrt[5]{32}}$	$\sqrt[5]{32}$	32	1

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

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

$$16^{(\frac{1}{4})} \cdot 16^{(\frac{1}{4})} \cdot 16^{(\frac{1}{4})} \cdot 16^{(\frac{1}{4})} = 16$$

$$16^{(\frac{1}{4})} = ?$$

A	B	C	D	E	F
$\sqrt[4]{16}$	1	3	$\frac{1}{\sqrt[4]{16}}$	2	16