Name

Exponents - Fractional Exponents with Square Integer Base - Exponent to Radical

1 Find the radical that is the same as this number raised to its exponent

$216^{\left(\frac{1}{3}\right)}$

A $\sqrt[3]{216}$ B $5\sqrt[3]{216}$ C $2\sqrt[3]{216}$

D $\frac{1}{\sqrt[3]{216}}$ E 1 F $3\sqrt[3]{216}$

2 Find the radical that is the same as this number raised to its exponent

$81^{\left(\frac{1}{4}\right)}$

A $\frac{1}{\sqrt[4]{81}}$ B $\sqrt[4]{81}^{4}$ C $2\sqrt[4]{81}$

D 1 E $\sqrt[4]{81}$

3 Find the radical that is the same as this number raised to its exponent

$9^{\left(\frac{1}{2}\right)}$

A $3\sqrt{9}$ B $\sqrt{4}$ C $\sqrt{9}$

D 1 E $2\sqrt{9}$ F $4\sqrt{9}$

4 Find the radical that is the same as this number raised to its exponent

$125^{\left(\frac{1}{3}\right)}$

A $5\sqrt[3]{125}$ B $2\sqrt[3]{125}$ C $3\sqrt[3]{125}$

D 1 E $4\sqrt[3]{125}$ F $\sqrt[3]{125}$

5 Find the radical that is the same as this number raised to its exponent

$16^{\left(\frac{1}{2}\right)}$

A $\sqrt{16}$ B $4\sqrt{16}$ C 1

D $2\sqrt{16}$ E $\sqrt{2}$ F $3\sqrt{16}$

6 Find the radical that is the same as this number raised to its exponent

$32^{\left(\frac{1}{5}\right)}$

A $3\sqrt[5]{32}$ B $4\sqrt[5]{32}$ C $5\sqrt[5]{32}$

D 1 E $\sqrt[5]{32}$ F $2\sqrt[5]{32}$

7 Find the radical that is the same as this number raised to its exponent

$4^{\left(\frac{1}{2}\right)}$

A $4\sqrt{4}$ B $2\sqrt{4}$ C $\sqrt{3}$

D $\sqrt{4}$ E $3\sqrt{4}$ F 1

8 Find the radical that is the same as this number raised to its exponent

$16^{\left(\frac{1}{4}\right)}$

A $2\sqrt[4]{16}$ B 1 C $\sqrt[4]{16}$

D $\frac{1}{\sqrt[4]{16}}$ E $\sqrt[4]{16}^{4}$ F $5\sqrt[4]{16}$