



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

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

$$40^{\left(\frac{1}{3}\right)}$$

A $5\sqrt[3]{40}$

B $3\sqrt[3]{40}$

C **1**

D $2\sqrt[3]{40}$

E $\sqrt[3]{40}$

F $\sqrt[3]{4}$

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

$$18^{\left(\frac{1}{2}\right)}$$

A $\sqrt{18}^2$

B $\frac{1}{\sqrt{18}}$

C $3\sqrt{18}$

D $\sqrt{18}$

E **1**

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

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

A $\frac{1}{\sqrt{16}}$

B $3\sqrt{16}$

C **1**

D $2\sqrt{16}$

E $\sqrt{16}^2$

F $\sqrt{16}$

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

$$48^{\left(\frac{1}{4}\right)}$$

A $4\sqrt[4]{48}$

B $\sqrt[4]{48}$

C $5\sqrt[4]{48}$

D **1**

E $2\sqrt[4]{48}$

F $\frac{1}{\sqrt[4]{48}}$

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

$$150^{\left(\frac{1}{2}\right)}$$

A $\frac{1}{\sqrt{150}}$

B $5\sqrt{150}$

C $3\sqrt{150}$

D $\sqrt{150}$

E $4\sqrt{150}$

F **1**

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

$$144^{\left(\frac{1}{2}\right)}$$

A $5\sqrt{144}$

B **1**

C $\sqrt{144}$

D $\frac{1}{\sqrt{144}}$

E $4\sqrt{144}$

F $\sqrt{144}^2$

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

$$75^{\left(\frac{1}{2}\right)}$$

A $4\sqrt{75}$

B $\frac{1}{\sqrt{75}}$

C **1**

D $\sqrt{75}$

E $2\sqrt{75}$

F $\sqrt{75}^2$

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

$$250^{\left(\frac{1}{3}\right)}$$

A $5\sqrt[3]{250}$

B **1**

C $2\sqrt[3]{250}$

D $\sqrt[3]{250}$

E $4\sqrt[3]{250}$

F $\frac{1}{\sqrt[3]{250}}$