Name

Radicals - Convert Cube Root, Values and Variables, to Exponents - Positive

1 Convert the radical to a fractional exponent

$\sqrt[3]{11b^5d^4}$

A $11^{\frac{1}{3}} \cdot b^{\frac{5}{3}} \cdot d^{\frac{4}{3}}$

B $11^{\frac{1}{2}} \cdot b^{\frac{5}{2}} \cdot d^{\frac{4}{2}}$

C $44^{\frac{1}{3}} \cdot b^{\frac{5}{3}} \cdot d^{\frac{4}{3}}$

D $11^{\frac{1}{3}} \cdot b^{\frac{5}{3}} \cdot d^{\frac{3}{3}}$

2 Convert the radical to a fractional exponent

$\sqrt[3]{7z^2x^4}$

A $7^{\frac{1}{3}} \cdot z^{\frac{2}{3}} \cdot x^{\frac{4}{3}}$

B $7^{-\frac{1}{3}} \cdot z^{-\frac{2}{3}} \cdot x^{-\frac{4}{3}}$

C $28^{\frac{1}{3}} \cdot z^{\frac{2}{3}} \cdot x^{\frac{4}{3}}$

D $21^{\frac{1}{3}} \cdot z^{\frac{2}{3}} \cdot x^{\frac{4}{3}}$

3 Convert the radical to a fractional exponent

$\sqrt[3]{7c^2d}$

A $7^{\frac{1}{3}} \cdot c^{\frac{2}{3}} \cdot d^{\frac{1}{3}}$

B $7^{\frac{1}{3}} \cdot c^{\frac{1}{3}} \cdot d^{\frac{2}{3}}$

C $21^{\frac{1}{3}} \cdot c^{\frac{2}{3}} \cdot d^{\frac{1}{3}}$

D $7^{\frac{1}{2}} \cdot c^{\frac{2}{2}} \cdot d^{\frac{1}{2}}$

E $7^{\frac{1}{3}} \cdot c^{\frac{4}{3}} \cdot d^{\frac{2}{3}}$

4 Convert the radical to a fractional exponent

$\sqrt[3]{7cx}$

A $7^{\frac{1}{3}} \cdot c^{\frac{1}{3}} \cdot x^{\frac{1}{3}}$

B $28^{\frac{1}{3}} \cdot c^{\frac{1}{3}} \cdot x^{\frac{1}{3}}$

C $7^{\frac{1}{3}} \cdot x^{\frac{1}{3}}$

D $21^{\frac{1}{3}} \cdot c^{\frac{1}{3}} \cdot x^{\frac{1}{3}}$

E $7^{\frac{1}{3}} \cdot c^{\frac{1}{3}} \cdot x^{\frac{3}{3}}$

5 Convert the radical to a fractional exponent

$\sqrt[3]{3d^2c^5}$

A $3^{\frac{1}{3}} \cdot d^{\frac{2}{3}} \cdot c^{\frac{5}{3}}$

B $12^{\frac{1}{3}} \cdot d^{\frac{2}{3}} \cdot c^{\frac{5}{3}}$

C $3^{\frac{1}{3}} \cdot d^{\frac{2}{3}} \cdot c^{\frac{4}{3}}$

D $3^{\frac{1}{2}} \cdot d^{\frac{2}{2}} \cdot c^{\frac{5}{2}}$

6 Convert the radical to a fractional exponent

$\sqrt[3]{7nd^4}$

A $7^{\frac{1}{3}} \cdot n^{\frac{1}{3}} \cdot d^{\frac{4}{3}}$

B $28^{\frac{1}{3}} \cdot n^{\frac{1}{3}} \cdot d^{\frac{4}{3}}$

C $14^{\frac{1}{3}} \cdot n^{\frac{1}{3}} \cdot d^{\frac{4}{3}}$

D $21^{\frac{1}{3}} \cdot n^{\frac{1}{3}} \cdot d^{\frac{4}{3}}$

7 Convert the radical to a fractional exponent

$\sqrt[3]{5x^5n}$

A $10^{\frac{1}{3}} \cdot x^{\frac{5}{3}} \cdot n^{\frac{1}{3}}$

B $5^{\frac{1}{3}} \cdot x^{\frac{5}{3}} \cdot n^{\frac{1}{3}}$

C $5^{\frac{1}{3}} \cdot x^{\frac{5}{3}} \cdot n^{\frac{3}{3}}$

D $5^{\frac{1}{3}} \cdot x^{\frac{6}{3}} \cdot$

E $5^{\frac{1}{2}} \cdot x^{\frac{5}{2}} \cdot n^{\frac{1}{2}}$

8 Convert the radical to a fractional exponent

$\sqrt[3]{7z^4r}$

A $7^{-\frac{1}{3}} \cdot z^{-\frac{4}{3}} \cdot r^{-\frac{1}{3}}$

B $7^{\frac{1}{2}} \cdot z^{\frac{4}{2}} \cdot r^{\frac{1}{2}}$

C $7^{\frac{1}{3}} \cdot z^{\frac{6}{3}} \cdot r^{\frac{1}{3}}$

D $21^{\frac{1}{3}} \cdot z^{\frac{4}{3}} \cdot r^{\frac{1}{3}}$

E $7^{\frac{1}{3}} \cdot z^{\frac{4}{3}} \cdot r^{\frac{1}{3}}$