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## Fractional Exponents Worksheets

Simplify the following fractional exponents:

- Express the given number as an exponent of its prime factors.  $1728 = \underline{\hspace{2cm}}$ .
- Simplify  $(4 \times 1/3)^6 / (2 \times 5)^4$ .
- Express  $5^{40}$  to the base of 25.
- Express the below expression as a single base and an exponent.  $16 \times 641/2 \times 4^3 = \underline{\hspace{2cm}}$ .
- Simplify  $(4^9 \times 3^8 \times 5^{12}) / (641/2 \times 1251/3 \times 27^2)$ .
- Express  $5 \times 125 \times 625 \times 15625$  as an exponent of the number
- Solve for x:  $48^3 = 27x^{12}$ .  
(a) 2 (b) 4 (c) 5 (d) 6
- Find the value of  $(-7)^3$ .  
(a) 343 (B) 729 (c) -343 (d) -81
- Solve  $(2/3)^9 \times (4/9)^{-6}$
- $3^6 - 251/3 = 13 \times 2^a$ . Find the value of a.

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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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