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## Fractional Exponents Worksheets

Simplify the following fractional exponents:

1. Simplify  $(27/8)^{-2/3}$
2.  $(256)^{0.125} \times (32)^{0.2}$
3.  $(5^{2n+1} \times 25^{n-1}) / (125^{-n} \times (5^2)^{n-1})$
4.  $(xa/xb)^{a+b} \times (xb/xc)^{b+c} \times (xc/xa)^{c+a} = \underline{\hspace{2cm}}$
5.  $54 \times 2561/4 / (0.1)^{-4}$
6.  $54 = 25x$ . Find  $x$ .  
(a) 5   (b) 3   (c) 2   (d) 1
7.  $32n - 1 = 1/27n - 3$
8.  $7x = 343$ . Find  $24x - 3$
9.  $(16n/2 \times 25 \times 83) / (2 \times 164) = 8$ . The value of  $n$  is  $\underline{\hspace{2cm}}$ .
10.  $64 \times 64 \times 64 \times 64 = 8n$ ,  $n = ?$   
(a) 2   (b) 4   (c) 8   (d) 16

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in an interesting way,  
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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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