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7TH GRADE EXPONENTS WORKSHEETS

1. Simplify $(27/8)^{-2/3}$

2. $(256)^{\sigma \cdot 1^{25}} \times (32)^{\sigma \cdot 2}$

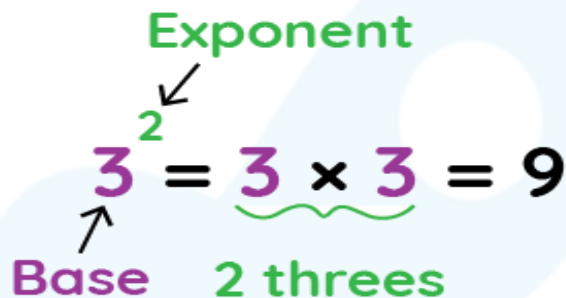
3. $(5^{2n+1} \times 25^{n-1}) / (125^{-n} \times (5^2)^{n-1})$

4. $(x^a/x^b)^{a+b} \times (x^b/x^c)^{b+c} \times (x^c/x^a)^{c+a} =$

Exponent

3² = 3 × 3 = 9

Base 2 threes



5. $5^4 \times 256^{1/4} / (0.1)^{-4}$

6. $5^4 = 25^x$. Find x.

- (a) 5 (b) 3 (c) 2 (d) 1

7. $3^{2n-1} = 1/27^{n-3}$

8. $7^x = 343$. Find 2^{4x-3}

9. $(4^n \times 2^5 \times 8^3) / (2 \times 16^4) = 8$. The value of n is
 _____ .

10. $64 \times 64 \times 64 \times 64 = 8^n$, n = ?

- (a) 2 (b) 4 (c) 8 (d) 16

**ANSWERS**

1)	$\frac{4}{9}$
2)	8
3)	$55n + 1$
4)	1
5)	2
6)	(c). 2

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- 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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7)	2
8)	2^9
9)	512
10)	(c). 8