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For Grades 1 - 10



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**7<sup>TH</sup> GRADE EXPONENTS WORKSHEETS**

1. Simplify  $(48/243)^{-3/4}$

2.  $(125)^{0.333} \times (25)^{0.5} \times (625)^{0.25}$

3.  $(4^n + 3 \times 16^{2n} - 3) / ((4^2)^n - 2 \times 64^n)$

$$X^m \cdot X^n = X^{m+n}$$

4.  $(P/Q)^2 * (Q^4/R^4)^{1/2} * (P/R)^{-2} = \underline{\hspace{2cm}}$ .

5.  $3^{-3} = (1/27)^x$  Find the value of x.

(a) 3      (b) 1      (c) 5      (d) 7

6.  $10^{100} \div 100^{48} = \underline{\hspace{2cm}}$ .

7.  $(2.7 \times 100^4) \div (0.081 \times 10^6)$

8.  $4^{4x+7} = 1/32^{3x-2}$

$$a^{-m} = \frac{1}{a^m}$$

9.  $6^x = 216$ . Find  $5^{5x-10}$

(a) 25      (b) 125      (c) 625      (d) 3125

10.  $125 \times 125 \times 125 \times 125 = 25^x$ . The value of x is  
          .

**ANSWERS**

1)	$27/8$
2)	125
3)	4
4)	1
5)	(b) . 1
6)	10000

**When you learn math  
in an interesting way,  
you never forget.**



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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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7)	$1/3$
8)	$-4/23$
9)	(d). 3125
10)	6