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For Grades 1 - 10



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7TH GRADE EXPONENTS WORKSHEETS

1. Express the given number as an exponent of its prime factors. $1728 = \underline{\hspace{2cm}}$.
2. Simplify $(4x^4)^6 / (2x^5)^4$.

Base \longrightarrow 7^3 \longleftarrow Exponent

3. Express 5^{40} to the base of 25.
4. Express the below expression as a single base and an exponent. $16 \times 8 \times 4^3 = \underline{\hspace{2cm}}$.
5. Simplify $(4^9 \times 3^8 \times 5^{12}) / (64^2 \times 25^3 \times 27^2)$.
6. Express $5 \times 125 \times 625 \times 15625$ as an exponent of the number 5.
7. Solve for x: $48^3 = 27x^{12}$.
(a) 2 (b) 4 (c) 5 (d) 6
8. Find the value of $(-7)^3$.
(a) 343 (b) 729 (c) -343 (d) -81
9. Solve $(2/3)^9 \times (4/9)^{-6}$
10. $3^6 - 5^4 = 13 \times 2^a$. Find the value of a.
(a) 2 (b) 3 (c) 4 (d) 5

**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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**ANSWERS**

1)	$2^6 \times 3^3$
2)	$2^8 \times 4$
3)	25^{2^0}
4)	2^{1^3}
5)	$4^3 \times 3^2 \times 5^6$
6)	5^{14}

7)	(a). 2
8)	(c). -343
9)	$2^{-3} \cdot 3^3$
10)	(b). 3