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For Grades 1 - 10



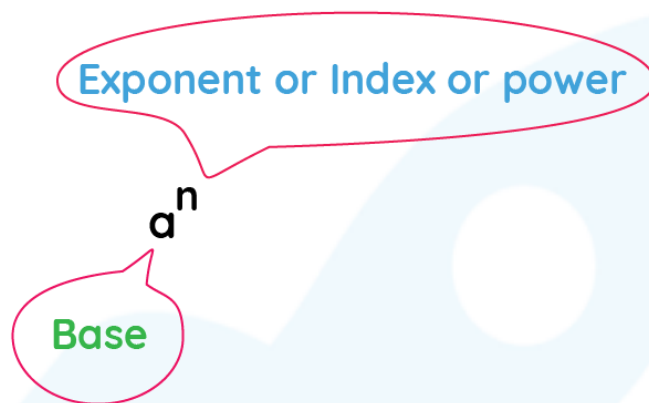
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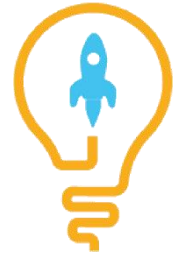
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7TH GRADE EXPONENTS WORKSHEETS

1. Write the given number as an exponent of its prime factors? $14400 = \underline{\hspace{2cm}}$.
2. Simplify $(3y^3)^9 / (9y^2)^4$.
3. Express 3^{36} to the base of 27.



4. Express $9 \times 81 \times 27^3 \times 3^5$ as a single base and an exponent.
5. Simplify the expression.
 $(12^4 \times 30^8 \times 125^2) / (128^4 \times 625^3 \times 27^8) = \underline{\hspace{2cm}}$
6. Express $2 \times 128 \times 32 \times 16$ as an exponent of the number 2.
7. Solve for x: $18^{10} = 3^2 \times x^5$.
(a) 4 (b) 8 (c) 12 (d) 16
8. Find the value of $-1 / (-8)^2$.
9. Solve $(5/4)^9 \times (16/25)^{-6}$
10. $3^4 - 5^2 = 7 \times 2^a$. Find the value of a.
(a) 2 (b) 3 (c) 5 (d) 6

**ANSWERS**

1)	$2 \times 3^2 \times 5^2$
2)	$3y^{19}$
3)	27^{1^2}
4)	3^{2^0}
5)	$2^{-1^2} \times 3^{-1^2} \times 5^2$
6)	2^{1^7}

**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)	(a) 4
8)	$-1/64$
9)	$(5/4)^{2^1}$
10)	(b) 3