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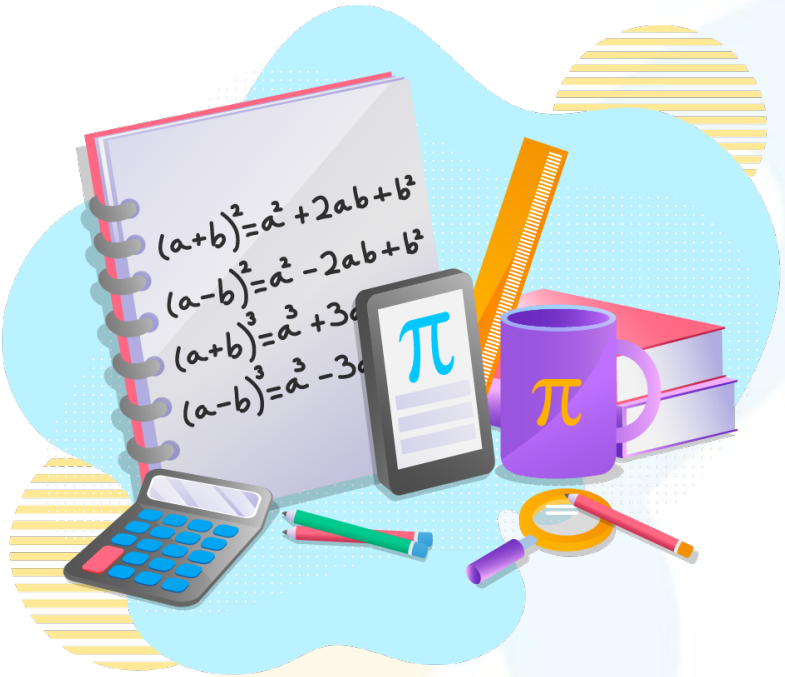
Exponents Worksheets

1) $10^{100} \div 100^{48} =$ _____ .

2) $(2.7 \times 100^4) \div (0.081 \times 10^6)$

3) Find the value of x in the expression: $4^{4x+7} = 1/32^{3x-2}$



4) Solve $(2/3)^9 \times (4/9)^{-6}$

5) $3^6 - 5^4 = 13 \times 2^a$. Find the value of a.

(a) 2 (b) 3 (c) 4 (d) 5

6) Write the given number as an exponent of its prime factors?

14400 _____

7) Simplify $(4x^4)^6/(2x^5)^4$.

8) Express 5^{40} to the base of 25.

9) Express the below exprssion as a single base and an exponent.

$16 \times 8 \times 4^3 =$ _____

10) Simplify $(4^9 \times 3^8 \times 5^{12})/(64^2 \times 25^3 \times 27^2)$.

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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)	1000
2)	1/3
3)	-4/23
4)	$2^{-3}3^{3}$
5)	b) 3
6)	$2^{6} \times 3^{2} \times 5^{2}$
7)	$2^{8}x^{4}$
8)	25^{20}
9)	2^{13}
10)	$4^{3} \times 3^{2} \times 5^{6}$

FUN FACT

1) Exponents were first used in the 15th century by a man named Nicolas Chuquet first used exponential notation back in the 15th century
2) An exponent is a number that tells how many times the base number is used as a factor.
3) Until about 400 years ago, nobody used exponents, and they were perfectly able to do mathematics.