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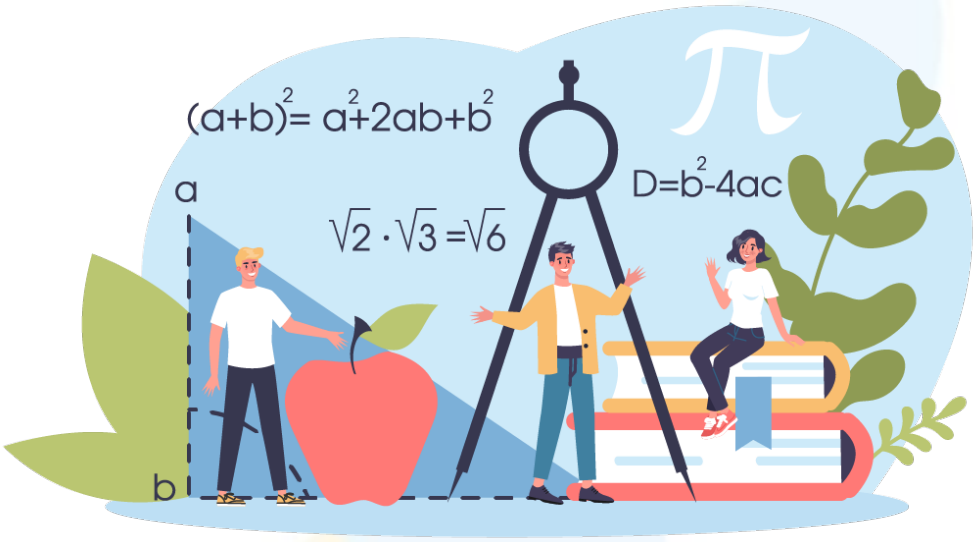
Exponents Worksheets

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

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

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



4) $6^x = 216$. Find 5^{5x-10}

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

5) $125 \times 125 \times 125 \times 125 = 25^x$. The value of x is _____

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

7) Simplify $(3y^3)^9/(9y^2)^4$.

8) Express 3^{36} to the base of 27.

9) Express $9 \times 81 \times 27^3 \times 3^5$ as as single base and an exponent.

10) Simplify the expression

$(12^4 \times 30^8 \times 125^2)/(128^4 \times 625^3 \times 27^8)$ = _____

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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)	10000
2)	$10^4/3$
3)	-4/23
4)	d) 3125
5)	6
6)	0.4444
7)	$3y^{19}$
8)	27^{12}
9)	3^{20}
10)	$2^{12} \times 3^{12} \times 5$

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.