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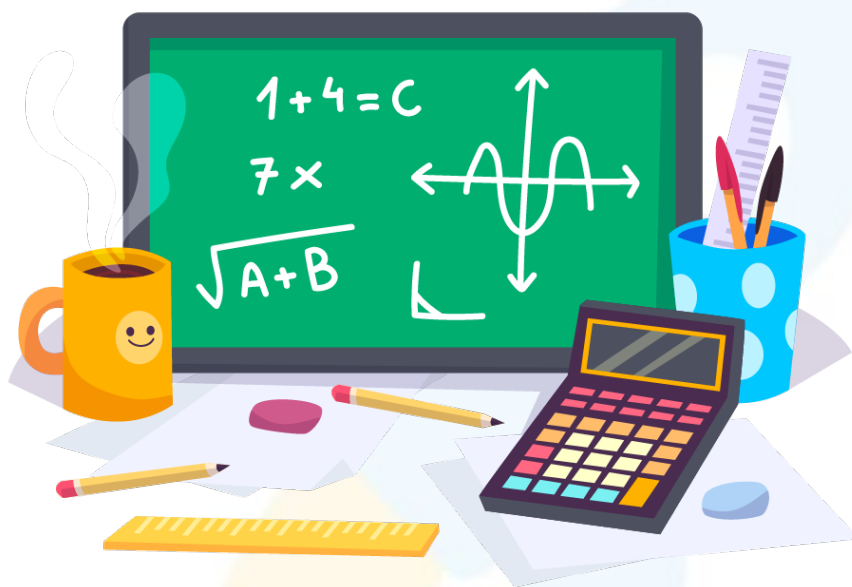
Exponents Worksheets

1) Express $2 \times 128 \times 32 \times 16$ as an exponent of the number 2.

2) Solve for x : $18^{10} = 3^{20}x^5$.

- (a) 4 (b) 8 (c) 12 (d) 16

3) Find the value of $-1/(-8)^2$.



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) $(256)^{0.125} \times (32)^{0.2}$

8) $(5^{2n+1} \times 25^{n-1}) / (125^{-n} \times (5^2)^{n-1})$

9) $(x^a/x^b)^{a+b} \times (x^b/x^c)^{b+c} \times (x^c/x^a)^{c+a} =$ _____

10) $5^4 \times 256^{1/4} / (0.1)^{-4}$



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in an interesting way,
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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^{17}
2)	a) 4
3)	$-1/64$
4)	d) 3125
5)	6
6)	0.4444
7)	8
8)	5^{5n+1}
9)	1
10)	2

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.

