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Exponents Worksheets

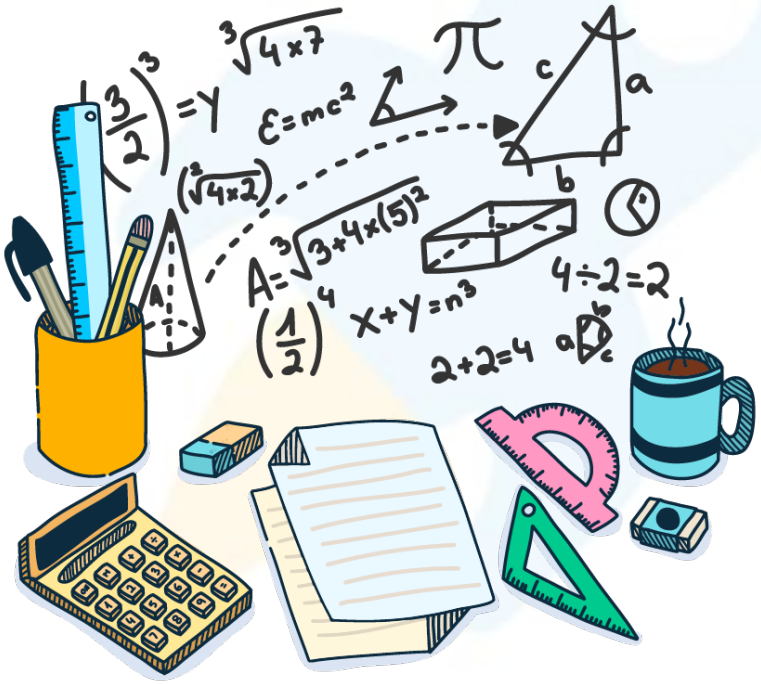
1) Express 5 x 125 x 625 x 15625 as an exponent of the number 5.

2) Solve for x: $48^3 = 27x^{12}$

(a) 2 (b) 4 (c) 5 (d) 6

3) Find the value of $(-7)^3$.

(a) 343 (b) 729 (c) -343 (d) -81



4) Solve $(5/4)^9 \times (16/25)^{-6}$

5) $3^4 - 5^2 = 7 \times 2^a$. Find the value of a.

(a) 2 (b) 3 (c) 5 (d) 6

6) Express the given number as an exponent of it prime factors.

1728 = _____

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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When you learn math in an interesting way, you never forget.

25 Million
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100K+
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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)	5^{14}
2)	a) 2
3)	c) -343
4)	$(5/4)^{21}$
5)	b) 3
6)	$2^6 \times 3^3$
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.