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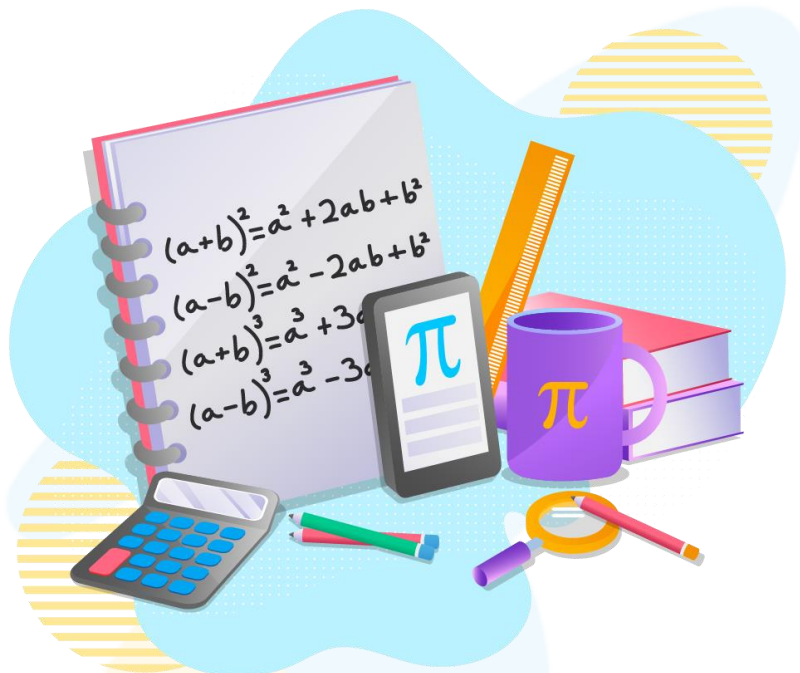
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POWERS AND EXPONENTS WORKSHEETS

1. $10^{100} \div 100^{48} = \underline{\hspace{2cm}}$.

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

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



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

(a) 25
3125

(b) 125

(c) 625

(d)

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

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

7. $(256)^{8 \cdot 125} \times (32)^{8 \cdot 2}$

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

9. $(x^a/x^b)^a + b * (x^b/x^c)^b + c * (x^c/x^a)^c + a =$
_____.

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



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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**ANSWERS**

1)	10000
2)	Ans: $1/3$
3)	$-4/23$
4)	(d). 3125
5)	6
6)	04/09/21

7)	8
8)	$55n + 1$
9)	1
10)	2