

Get better at Math.
Get better at
everything.



Come experience the Cuemath methodology and ensure your child stays ahead at math this summer.



**Adaptive
Platform**



**Interactive Visual
Simulations**



**Personalized
Attention**

For Grades 1 - 10



LIVE online classes
by trained and
certified experts.

Get the Cuemath advantage

Book a FREE trial class

MULTIPLYING EXPONENTS WORKSHEETS

Write the answer as a single exponent for the questions from 1-5.

1) $(-3)^2 \times (-3)^5 = \text{-----}$

2) $(4^2)^3 = \text{-----}$

3) $a^6 \times a^5 = \text{-----}$

4) $(-2)^3 \times ((-2)^2)^{-1} = \text{-----}$

5) $\left(\frac{1}{2}x^2y^3\right)^3 = \text{-----}$

- 6) A laptop's storage is shown below. Also, the conversion from gigabytes to bytes is shown. Use this information to find the laptop's storage in bytes. Express your answer as an exponent.



Total storage: 32 gigabytes

1 gigabytes = 2^{30} bytes

7) Simplify $(3.8 \times 10^7) \times (1.42 \times 10^6)$ and express the answer in scientific notation.

8) If $(x^2)^3 \cdot x^5 = x^a$ then $a = \underline{\hspace{2cm}}$.

9) Express $5 \times 125 \times 625 \times 15625$ as an exponent of the number 5.

10) Simplify $\left(\frac{2}{3}\right)^9 \times \left(\frac{4}{9}\right)^{-6}$ as a single exponent.

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



25 Million

Math classes &
counting

100K+

Students learning
Math the right way

20+ Countries

Present across USA, UK,
Singapore, India, UAE & more.

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

Get the Cuemath advantage

Book a FREE trial class

**ANSWERS**

1)	$(-3)^7$
2)	4^6
3)	a^{11}
4)	$(-2)^1$ (or) -2
5)	$\frac{1}{8}x^6y^9$
6)	2^{35} bytes
7)	5.396×10^{13}
8)	11
9)	5^{14}
10)	$\left(\frac{2}{3}\right)^{-3}$ (or) $\left(\frac{3}{2}\right)^3$

FUN FACT

1. To multiply two exponents of same bases we apply the property
 $a^m \times a^n = a^{m+n}$.
2. From the above property another property is also derived which is
 $(a^m)^n = a^{mn}$.
3. The scientific notation of a number is of the form $a \times 10^b$, where $0 \leq a < 10$ and b is any integer.

