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MULTIPLYING EXPONENTS WORKSHEETS

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

1) $(-3)^5 \times (-3)^8 = \text{-----}$

2) $2^{-7} \times 2^{-10} \times 2^{-5} = \text{-----}$

3) $z^5 \cdot z^2 \cdot z^5 \cdot z^{-1} = \text{-----}$

4) $\left(\frac{1}{2}\right)^5 \cdot \left(\frac{1}{2}\right)^7 = \text{-----}$

5) $\left(\frac{1}{3}\right)^5 \cdot \left(\frac{1}{7}\right)^5 = \text{-----}$

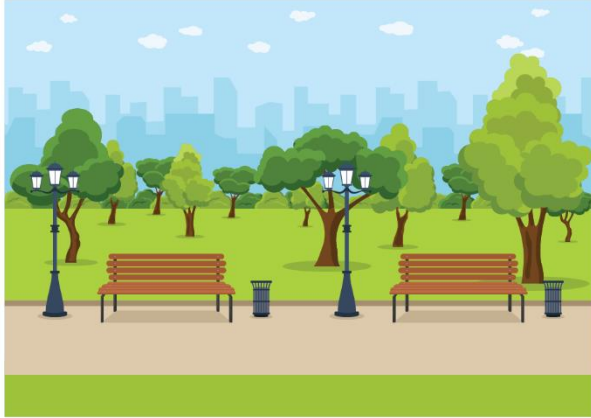
6) If the mass of each sand grain is about 10^{-4} grams., then how many sand grains a bag of 1 kg of sand can have?



7) Simplify the following and express the answer in scientific notation.

$$(3.2 \times 10^7) \times (7.5 \times 10^{-3})$$

- 8) The dimensions of a rectangular park are 8.1×10^3 cm and 2.8×10^5 cm. Find its area and express the answer in scientific notation.



- 9) Solve the following equation for x.

$$\left(\frac{1}{4}\right)^5 \cdot \left(\frac{1}{4}\right)^{-x} = \frac{1}{1024}$$

- 10) Solve the following equation for x.

$$7^{4x} \cdot 7^{3x+1} = 7^{-9}$$

**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."

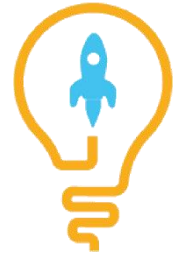
- Kirk Riley

"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)	$(-3)^{13}$
2)	2^{-22}
3)	z^{11}
4)	$\left(\frac{1}{2}\right)^{12}$
5)	$\left(\frac{1}{21}\right)^5$
6)	10^7
7)	2.4×10^5
8)	$2.268 \times 10^9 \text{ cm}^2$
9)	0
10)	$x = -\frac{10}{7}$

FUN FACT

The laws that are used to multiply the exponents are:

1. $a^m \times a^n = a^{m+n}$
2. $(a^m)^n = a^{mn}$
3. $a^m \times b^m = (ab)^m$

