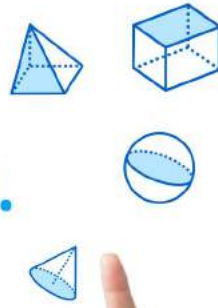


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NEGATIVE AND ZERO EXPONENTS WORKSHEETS

For the questions from 1-4, write the answer in terms of a single and positive exponent.

1) $(-7)^{-7} = \text{-----}$

2) $\frac{3^{-7}}{3^{-2}} = \text{-----}$

3) $(1.2)^{-11} \cdot (1.2)^{-20} = \text{-----}$

4) $\left(\frac{1}{9}\right)^{-7} \div 3^{-7} = \text{-----}$

5) $\frac{a^{-7} \cdot a^{-3}}{4} = \text{-----}$

6) $\left(\left(\frac{-2}{5}\right)^3\right)^0 = \text{-----}$

7) 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?



8) Solve $2^{-x} = 16$.

9) Simplify $6^{-3} \cdot 6^2 + 4^{-1}$ as a single fraction without exponents.

10) Solve $\frac{(1.2)^x}{(1.2)^{-2}} = (1.2)^{-3}$.



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**ANSWERS**

1)	$\frac{1}{(-7)^7}$
2)	$\frac{1}{3^5}$
3)	$\frac{1}{(1.2)^{31}}$
4)	27^7
5)	$\frac{1}{4a^{10}}$
6)	1
7)	10^7
8)	-4
9)	$\frac{5}{12}$
10)	$-\frac{3}{2}$

FUN FACT

Some important rules of exponents are:

1. $a^m \cdot a^n = a^{m+n}$

2. $\frac{a^m}{a^n} = a^{m-n}$

3. $a^0 = 1$

4. $a^{-n} = \frac{1}{a^n}$

5. $(a^m)^n = a^{mn}$

6. $(ab)^m = a^m b^m$

