Prealgebra Review #3: Exponents & More Order of Operation

What is an Exponent?

An exponent or power is a mathematical operation of repeated multiplication.

Base $\longrightarrow$ b^n $\longleftarrow$ Exponent

b^n means "b raised to the power of n".

$$5^3 = 5 \times 5 \times 5 = 125$$

Evaluate.

1) 7^2

2) 10^3

3) 4^5

4) -8^2

5) $(-9)^2$

6) $(-5)^3$

7) -5^3

Simplify the expression.

8) $4(6 - 9)^3$

9) $7^3 - (-4)^2$

10) $2^3 - 5^2 + 5^3 - 2^2$

11) $(5 - 4)(4 + 4) + 3^2$

12) $21 - [7 + (11 - 6)] - (4 - 2)^3$