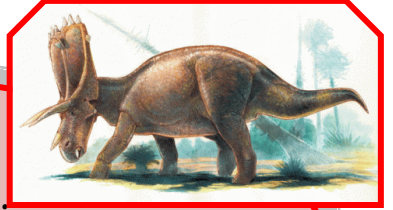


# 1.2 (book pg.12) Powers & Exponents



What is The Meaning of **Exponents**:

- Repeated addition is multiplication.
- Repeated multiplication is the use of exponents.



- The **Base** is the “**Big number**” which is the number to be repeated.
- The **Exponent** is the “**Floaty number**” which tells how many times the **Base** is to be repeated (or used as the factor).
- A **Power** is a product of repeated factors.

# Exponential Form:

exponent

base  $2^3 = 2 \cdot 2 \cdot 2$

$n^4 = n \cdot n \cdot n \cdot n$   
power factors



POWER

WORDS

$6^2$

Six *squared*, or six to the second

$6^3$

Six *cubed*, or six to the third

$6^4$

Six to the fourth



- **Perfect squares** are the numbers that result from multiplying any whole number by itself
- (ex.  $36 = 6 \times 6 = 6^2$ ).

