

$$3^4 \begin{array}{l} \swarrow \text{exponent} \\ \nwarrow \\ \text{Base number} \end{array} = \underbrace{3 \cdot 3}_{1-2} \cdot \underbrace{3 \cdot 3}_{3-4} = 81$$

\downarrow \downarrow \downarrow \downarrow
 1 2 3 4

Exponential form

$$2 \times 2 \times 2 \times 2 \times 2 = 2^5$$

\downarrow \downarrow \downarrow \downarrow \downarrow
 1 2 3 4 5

\swarrow exponent
 \nwarrow Base number

$$4^4 = 4 \times 4 \times 4 \times 4 = 256$$

$$\begin{array}{r} \times \\ 4 \\ \hline 16 \\ \times \\ 16 \\ \hline 64 \\ \times \\ 64 \\ \hline 256 \end{array}$$

$$4 \times 4 = 16$$

$$16 \times 4 = 64$$

$$64 \times 4 = 256$$