I. Converting words to number:

1. It is just like when converting binary digits to decimal number system which is base-10 system. The column titles are based on a base-26 system, where each letter represents a digit from 1 to 26 (A=1, B=2, ..., Z=26). To convert a column title like "ZY" to its corresponding number, you can use the following calculation:

For a column title "ZY":

i. Identify the value of each letter:

a. Z corresponds to 26.

b. Y corresponds to 25.

ii. Apply the base-26 positional value:

a. The rightmost letter (Y) is in the 26^0 position.

b. The next letter to the left (Z) is in the 26^1 position.

iii. Calculate the sum:

>> (Z \* 26^1) + (Y \* 26^0)

>> (26 \* 26) + (25 \* 1)

>> 676 + 25

>> 701

2. Therefore, "ZY" corresponds to the number 701.

II. Converting number to words:

1. It is just like converting a number (decimal number system) to binary system which is base-2 system. We divide the number by 26 and its successive quotients until the quotient is less than 26 since they are based on a base-26 system, where each letter represents a digit from 1 to 26 (A=1, B=2, ..., Z=26).

