

(Computer)

OCTAL TO DECIMAL CONVERSION

Question1: $(2057)_8 = ()_{10}$

STEP1 → Write down the octal number and give the index from right to left → $2^3 \ 0^2 \ 5^1 \ 7^0$

STEP2 → Multiply each digit by 8 and write “+” symbol to each multiplication → $8*2 + 8*0 + 8*5 + 8*7$

STEP3 → Write the index number as power with each 8 digit as per sequence → $8^3*2 + 8^2*0 + 8^1*5 + 8^0*7$

STEP4 → Solve the expression → $1024 + 0 + 40 + 7$

ANS → $(2057)_8 = (1071)_{10}$

Question2: $(37246)_8 = ()_{10}$

