We have to study about only for formulas:

Binary = ( )$_2$

Octal = ()$_8$

Decimal = ()$_{10}$

Hexadecimal= ()$_{16}$

Formula 1:

To convert from decimal to any other number system (Binary,octal,hexadecimal)

()$_{10}$ = (?)$_2$ ()$_{10}$ = (?)$_8$ ()$_{10}$ = (?)$_{16}$

Trick: Divide (If D is in the beginning).

Step 1 : Divide by that number in which we are converting or which is at another side.

Decimal to binary = divide by 2 ()$_{10}$ = (?)$_2$ ➔ divide by 2 (54)$_{10}$ = (?)$_2$ ➔ Divide by 2 [**2 54**]

Decimal to octal = divide by 8 ()$_{10}$ = (?)$_8$ ➔ divide by 8

Decimal to hexadecimal = 16 ()$_{10}$ = (?)$_{16}$ ➔ divide by 16

Step 2: use calculator and type divide ,

i. write the number before points only

ii. the remainder(number in side) can be obtained as: **2 54**