Octal into Binary

Binary into Octal

Use Table

#### **Table Making Procedure**

#### Octal into Binary

#### Binary into Octal

Binary 
$$= 2$$

What should be the power of 2 to get the answer 8 ?

#### Conversion from Binary into Octal & Octal to Binary

#### How to Make the Table



$$3 \text{ columns} \qquad 8 \text{ rows}$$

$$= 8$$

Write four times 0
Then Write four times

8/2 = 4

Write two times 0
Then Write two times 1
Still some boxes of this column are empty, So again repeat
Write two times 0
Then Write two times 1 (Now col is filled completely)

Write one time 0
Write one time 1
Is Column completely
filled ? NO....
Carry on till whole this
column is filled

Octal into Binary

Binary into Octal

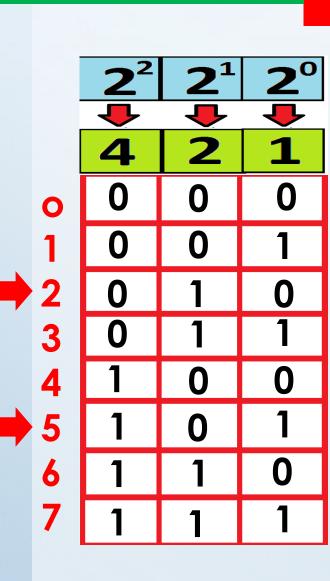
Use Table

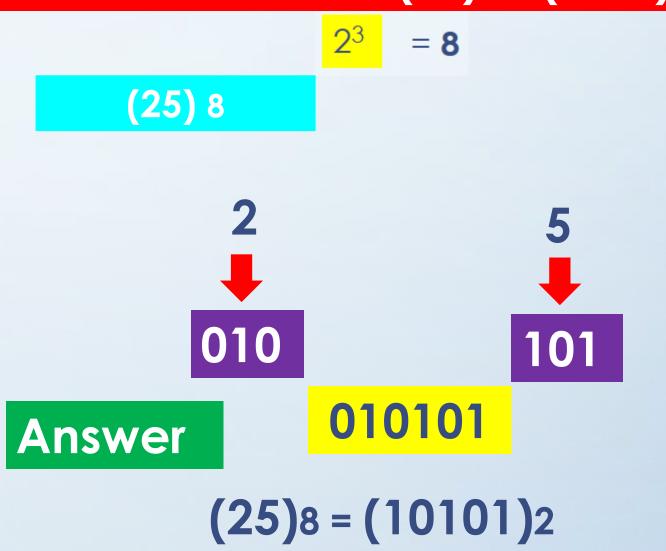
### Octal into Binary

Convert 
$$(25)8 = (?)2$$

Whole

number





### Octal into Binary

Convert 
$$(76.4)8 = ()2$$
?



23 = 8 (76.4)8110 111110.100

Answer

$$(76.4)8 = (1111110.100)2$$

### Floating point number

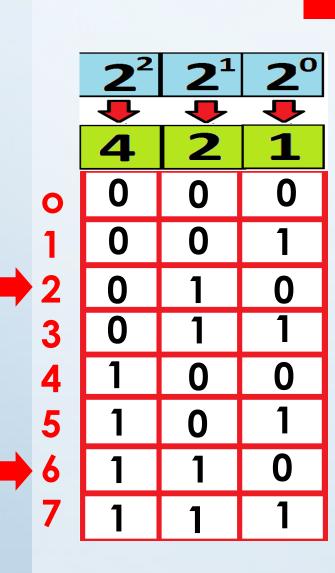
4

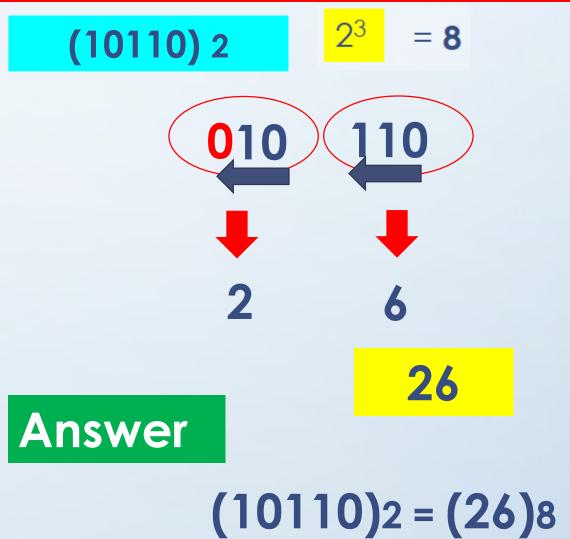
100



### **Binary into Octal**

Convert 
$$(10110)_2 = ( )8 ???$$





Whole number

### **Binary into Octal**

Convert  $(11.10)_2 = ( )_8 ???$ 



$$(11.10) 2 2^3 = 8$$

### **Answer**

$$(11.10)2 = (3.4)8$$

Floating point number