

MGF / Converting between base two and base eight

Worked Examples:

Converting between base two and base eight

The table to the right shows the digits of the octal system (base eight) and their equivalents in the binary system (base two). Use the table to fill in the blanks below.

(a) Write 10011001_{two} in the octal system.

$10011001_{\text{two}} = \boxed{}_{\text{eight}}$

(b) Write 647_{eight} in the binary system.

$647_{\text{eight}} = \boxed{}_{\text{two}}$



Octal digit (base eight)	Binary equivalent (base two)
0	000
1	001
2	010
3	011
4	100
5	101
6	110
7	111

#NumerationSystems