

**There are only 10 types
of people in the world:
Those who understand binary
and those who don't**

Binary Number Conversion

- Based on the power of 2
- Ever wondered why so many numbers are weird?
 - 2 GB
 - 64 MB
 - 512 GB hard drive
 - 128 GB thumb drive
- $2^6 \rightarrow 64$
- $2^9 \rightarrow 512$

Learn to Convert Binary \Leftrightarrow Decimal

- $2 \Leftrightarrow 10$
- $9 \Leftrightarrow 1001$
- $17 \Leftrightarrow 10001$
- $200 \Leftrightarrow 11001000$
- How do you do that???

Binary Conversion Practice - To Decimal

01101110 =>

01100101 =>

01110010 =>

01100100 =>

Binary Conversion Practice - To Binary

72 =>

14 =>

32 =>

7 =>

BQ - Binary Conversion Practice - To Decimal

01100111 =>

01100101 =>

01100101 =>

01101011 =>

97	a
98	b
99	c
100	d
101	e
102	f
103	g
104	h
105	i
106	j
107	k
108	l
109	m
110	n