Converting Binary Numbers to Decimal Numbers

Repeated process: 1. Remember each digit represents a power of 2.

- 2. If the binary digit is zero the number is not used.
- 3. If the binary digit is one the number is used.
- 4. Add the used numbers.

Example: Change 10001011 to decimal

Example: Change 11100101 to decimal

Try these and verify that you can get the right answer ...

$$00101100 \rightarrow 44$$
 $10111101 \rightarrow 189$

*** This means there is another way to convert decimal to binary!