

Binary Bits and Bytes

Each binary digit (0 or 1) is called a **bit**

8 bits is called a **Byte**

4 bits is half a byte and is called a **nibble**

1 **bit** is a single binary digit (a 0 or a 1)

The number of bits in a number is called the **word length**

Binary Bits and Bytes

A bit	1
A nibble	1011
A byte	10110110

1. State the largest denary number which can be represented by a nibble
2. Write down the range of numbers which can be represented by a single Byte
3. How many different numbers can be represented using 8 bits?

Binary Bits and Bytes

1 Byte (8 bits) can make any number from 0 to 255

- 255 is the highest number that can be made using 1 Byte
- 0 is the lowest number that can be made using 1 Byte
- Any number between 0 and 255 can be made using 1 Byte - this is 256 different numbers