**Questions**

1. What is the smallest memory object that can represent a character of information?
   1. Think… How many upper case letters in the alphabet (A to Z)?26
   2. Think… How many lower case letters in the alphabet (a to z)?26
   3. Think… How many number digits (0 to 9)?10
   4. Think… How many punctuation marks?14
   5. Add them all up 76
2. Research the ASCII characters set. What is it and how is it related to computer memory?

**Every character on the keyboard has its equal binary value. The decimal equal to that binary value**

1. How are strings of characters (Google “String”) represented in computer memory?

**Characters are normally represented as strings of seven bits each in an encoding called ASCII**

How are negative integers represented in computer memory? (Include a diagram)

**The C standard doesn't mandate any particular way of representing negative signed numbers. In most implementations that you are likely to encounter, negative signed integers are stored in what is called two's complement.**

1. How are decimal numbers (Google “Floating Point”) represented in computer memory? (Include a diagram)

**The computer memory is organized into strings of bits called words of same length. Decimal numbers converted into their binary versions**

A Pixel is computer memory structure used to store image information. How is a Pixel represented in memory? (Include a diagram).

**Pixels are the smallest individual element in an image, holding antiquated values that represent the brightness of a given color at any specific point. Typically, the pixels are stored in computer memory as a raster image or raster map, a two-dimensional array of small integers.**