**Week 1 Work**

You may assume all numbers are represented in 8 bits. You should try to do this without any computing devices except for a dollar store calculator. You may double check your work using a computer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Decimal | Unsigned | Signed | Two’s Comp. | Hexadecimal |
| 40 |  |  |  |  |
| -53 |  |  |  |  |
| 260 |  |  |  |  |
| 128 |  |  |  |  |
| -128 |  |  |  |  |
| 6 |  |  |  |  |
| -16 |  |  |  |  |
| 28 |  |  |  |  |
| 45 |  |  |  |  |
| 195 |  |  |  |  |
| -114 |  |  |  |  |
| -33 |  |  |  |  |
| -69 |  |  |  |  |
| 532 |  |  |  |  |
| -37 |  |  |  |  |
| 97 |  |  |  |  |
| -130 |  |  |  |  |
| 89 |  |  |  |  |

**Two’s Compliment Addition**

|  |  |  |  |
| --- | --- | --- | --- |
| 10011001  +00110011 | 11110000  +10101010 | 01010101  +10110010 | 01001110  +10011100 |
|  |  |  |  |

How many bytes(be technically correct please!) in a Kilobyte?

List the following in increasing order of magnitude (you can use the internet for this question):

Terabyte, Exabyte, Kilobyte, Megabyte, Petabyte, Gigabyte