

**Worksheet #2**

**Converting Decimal to Binary**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: 7th**

Use the following table to help you to convert the Decimal numbers to Binary Numbers:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 210 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |
| 1024 | 512 | 256 | 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |

**Write each decimal number as a binary number:**

|  |  |
| --- | --- |
| **1- Decimal: (33) 10**  **Binary: 000000100001**  **32+1=33** | **2- Decimal: (50) 10**  **Binary: 000000110010**  **32+16+2=50** |
| **3- Decimal: (29) 10**  **Binary: 00000011101**  **16+8+4+1=29** | **4- Decimal: (44) 10**  **Binary:000000101100**  **4+8+32=44** |
| **5- Decimal = (19) 10**  **Binary: 00000010011**  **16+2+1=19** | **6-Decimal = (22) 10**  **Binary:00000010110**  **16+4+2=22** |