

**Worksheet #2**

**Converting Decimal to Binary**

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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:**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **32** | **16** | **8** | **4** | **2** | **1** | | **1** | **0** | **0** | **0** | **0** | **1** |   **(100001) 2** | **2- Decimal: (50) 10**  **Binary:**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **32** | **16** | **8** | **4** | **2** | **1** | | **1** | **1** | **0** | **0** | **1** | **0** |   **(110010) 2** |
| **3- Decimal: (29) 10**  **Binary:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **16** | **8** | **4** | **2** | **1** | | **1** | **1** | **1** | **0** | **1** |   **(11101) 2** | **4- Decimal: (44) 10**  **Binary:**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **32** | **16** | **8** | **4** | **2** | **1** | | **1** | **0** | **1** | **1** | **0** | **0** |   **(101100) 2** |
| **5- Decimal = (19) 10**  **Binary:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **16** | **8** | **4** | **2** | **1** | | **1** | **0** | **0** | **1** | **1** |   **(10011) 2** | **6-Decimal = (22) 10**  **Binary:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **16** | **8** | **4** | **2** | **1** | | **1** | **0** | **1** | **1** | **0** |   **(10110) 2** |