**Worksheet 1**

**Converting Binary to Decimal**

**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 binary number as a decimal number:

|  |  |
| --- | --- |
| 1- Binary = (10011) 2  Decimal = **19**  **16+2+1=19** | 2- Binary = (10000) 2  Decimal =**16** |
| 3- Binary = (101011) 2  Decimal = **43**  **32+8+2+1=43** | 4- Binary = (1111) 2  Decimal = **15**  **8+4+2+1=15** |
| 5- Binary = (110011) 2  Decimal = **51**  **32+16+2+1=51** | 6-Binary = (11000) 2  Decimal = **24**  **16+8=24** |