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| --- |
| **10 Base (Denary)** **- How humans understand number!**  *Explanation: Think back to when you were in primary school. You learnt to organise numbers in multiples of ten’s.*  **Task:** Complete the table below:  **Number T H T U**  146 0 1 4 6  0 0 0 3  5  24  0 0 6 5  93  131  0 1 7 9  255 |

**2 Base** **(Binary) - How computers understand number!**

*Explanation: Binary is the language computers understand. Computers only work with values of 1 and 0. The reason for this is computers work on circuit boards where there is either high voltage (1) or low voltage (0).*

**Task:** Complete the table below:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Number** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 146 |  | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
|  |  | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5 |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |
|  |  | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 93 |  |  |  |  |  |  |  |  |  |
| 131 |  |  |  |  |  |  |  |  |  |
|  |  | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 255 |  |  |  |  |  |  |  |  |  |