|  |  |  |  |
| --- | --- | --- | --- |
| DECIMAL | BINARY CONVERSION | | CORRECT? |
| 123 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 156 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 84 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 37 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 255 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 12 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | | 0 | 1 | 0 | 1 | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | | 0 | 1 | 0 | 1 | |  |
| 22 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 191 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 243 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 16 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 178 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 92 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |
| 46 | |  |  |  |  | | --- | --- | --- | --- | | 128 | 64 | 32 | 16 | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | 8 | 4 | 2 | 1 | |  |  |  |  | |  |

**More Binary Numbers**

This works exactly the same way as the smaller numbers, only now you have a larger grid to work with. **Example: 124 = 0-1-1-1-1-1-0-0**

Each number (**0** or **1**) is called a ‘**bit**’ short for ‘binary digit’. Each block of 4 bits is called a “**nybble**”. Each block of 8 bits is called a “**byte**”.

NAME and CLASS:

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TOTAL OUT OF 12: