Binary Practice

How many of the numbers below can you represent in binary (1s or 0s)?

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 7 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 18 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 23 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 44 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 101 |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Target** |  | **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
| 235 |  |  |  |  |  |  |  |  |  |

**Super Challenge**

1. What are the smallest and largest possible numbers you can make in binary based on the grid above?
2. How would you represent the number 297?