**Binary practice:**

What number is this 4-bit binary number: 0111?

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
|  |  |  |  |

What number is this 8-bit binary number: 00000111?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

What number is this 8-bit binary number: 01101010?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

What number is this 8-bit binary number: 11000001?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

Convert 5 to a 4-bit binary number

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 4 | 2 | 1 |
|  |  |  |  |

Convert 97 to an 8-bit binary number

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 128 | 64 | 32 | 16 | 8 | 4 | 2 | 1 |
|  |  |  |  |  |  |  |  |

Show the work for the division by 2 method to convert 11 to binary:

Show the work for the division by 2 method to convert 54 to binary:

Use the multiplication method to turn 101102 into a decimal: