Binary Check-In

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Convert these numbers from decimal to binary.

|  |  |  |  |
| --- | --- | --- | --- |
| 112 |  | 78 |  |
| 52 |  | 46 |  |

# Convert these numbers from binary to decimal.

|  |  |  |  |
| --- | --- | --- | --- |
| 110110 |  | 11111 |  |
| 101101 |  | 101 |  |

# With this number of bits, how many different states are possible?

|  |  |  |  |
| --- | --- | --- | --- |
| 5 |  | 7 |  |
| 2 |  | 6 |  |

# How many bits do you need to represent this many different states?

|  |  |  |  |
| --- | --- | --- | --- |
| 231 |  | 232 |  |
| 137 |  | 170 |  |