Complete the chart below following the instructions in Step A. Then complete Step B.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A512 | B256 | C128 | D64 | E32 | F16 | G8 | H4 | I2 | J1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 2 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| 3 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 4 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| 5 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 8 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |

1. Fill in the binary value of each row based on the decimal values listed below. Row 1 is done for you.

|  |  |
| --- | --- |
|  | 28 |
|  | 74 |
|  | 112 |
|  | 1013 |
|  | 265 |
|  | 65 |
|  | 18 |
|  | 382 |
|  | 56 |
|  | 163 |

1. Calculate the decimal value of each column based on the binary values in the chart above. Enter your answers in the table below.

|  |  |
| --- | --- |
|  | 64 |
|  | 100 |
|  | 65 |
|  | 468 |
|  | 199 |
|  | 718 |
|  | 806 |
|  | 580 |
|  | 269 |
|  | 113 |