1. Consider a two’s complement signed, 8-bit decimal type, [-128,127]. In the table cell to the left of each of the 13 numbers, write the **binary** representation of the number. Use the space below for rough work.

|  |  |
| --- | --- |
|  | 127 |
|  | 126 |
|  |  |
| . . . |  |
|  |  |
|  | 74 |
|  |  |
| . . . |  |
|  |  |
|  | 3 |
|  | 2 |
|  | 1 |
|  | 0 |
|  | -1 |
|  | -2 |
|  | -3 |
|  |  |
| . . . |  |
|  |  |
|  | -97 |
|  |  |
| . . . |  |
|  | -127 |
|  | -128 |

2. In a signed, three-digit octal number system, what would be the **octal** representation of -1748?