Floating Point Binary Recap

Complete the table below.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fixed Point** | **Floating Point** | **Sign (1 bit)** | **Mantissa (15 bit)** | **Exponent (8 bit)** |
| 10001.10001 |  |  |  |  |
| 101.0111 |  |  |  |  |
| 111100.101 |  |  |  |  |
| 0.00001101 |  |  |  |  |
| 0.0000001111 |  |  |  |  |
| 0.00000111 |  |  |  |  |
| -101.001011 |  |  |  |  |
| -1111.0001 |  |  |  |  |
| -11100.11110 |  |  |  |  |
| -0.000011001 |  |  |  |  |
| -0.000111101 |  |  |  |  |
| -0.000000111 |  |  |  |  |