

The diagram illustrates the base-2 expansion of the number 166. It consists of 8 identical columns. Each column contains two empty rectangular boxes at the top, representing the base-2 digits for powers of 2 greater than or equal to 2⁴. Below these are five circles containing the numbers 16, 8, 4, 2, and 1, representing the powers of 2 used in the expansion. The number 166 is equal to 128 + 32 + 4 + 2, which corresponds to the 7th, 5th, 3rd, and 4th circles from the top in each column.