

a. A 3-bit decoder

b. The truth table for a 3-bit decoder

FIGURE B.3.1 A 3-bit decoder has 3 inputs, called 12, 11, and 10, and 23 = 8 outputs, called Out0 to Out7. Only the output corresponding to the binary value of the input is true, as shown in the truth table. The label 3 on the input to the decoder says that the input signal is 3 bits wide.

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