

Test your knowledge. Complete the table by calculating and filling in the unknowns. Show the conversions!

Base 10	Base 2	Base 8	Base 16
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$$\begin{array}{r}
 127 \\
 63 \quad | \\
 31 \quad | \\
 15 \quad | \\
 7 \quad | \\
 3 \quad | \\
 21
 \end{array}
 = \overline{\begin{array}{ccccccc} 1 & 1 & 1 & 1 & 1 & 1 & 1 \end{array}} = \begin{array}{ccc} 177 & = & 7F \\ 128 & 64 & 32 & 16 & 8 & 4 & 2 & 1 & 64 & 8 & 1 & 16 & 1 \end{array}$$

$$\begin{array}{r}
 21 \\
 16 \quad | \\
 5 \quad | \\
 1 \quad | \\
 0 \quad | \\
 1
 \end{array}
 = \overline{\begin{array}{cccc} 1 & 0 & 1 & 0 \end{array}} = \begin{array}{ccc} 25 & = & 15 \\ 16 & 8 & 4 & 2 & 1 \end{array}$$

$$67 = \overline{\begin{array}{cccccc} 1 & 1 & 1 & 0 & 0 & 1 \end{array}} = \begin{array}{ccc} 71 & = & 39 \\ 32 & 16 & 8 & 4 & 2 & 1 & 8 & 1 \end{array}$$

$$171 = \overline{\begin{array}{cccccc} 1 & 0 & 1 & 0 & 1 & 0 & 1 \end{array}} = \begin{array}{ccc} 253 & = & AB \\ 64 & 8 & 1 & 16 & 1 \end{array}$$