

What is one-hundred seventy-eight in base 8 (octal)?

$$\begin{array}{r} \times 64 \quad \times 8 \quad \times 1 \\ 2 \quad 6 \quad 2 \\ \hline \text{base 8} \end{array}$$

make 0 to

$$\begin{array}{r} \downarrow \\ b \quad 2 \\ \hline \text{base 16} \end{array}$$

$$\begin{array}{r} \times 100 \quad \times 10 \quad \times 1 \\ 1 \quad 7 \quad 8 \\ \hline \text{base 10} \end{array}$$

What base?
notation:

0

$$\begin{array}{l} 178 \div 16 = 11 \text{ R } 2 \\ 11 \div 16 = 0 \text{ R } 11 \\ \text{eleven} \end{array}$$

0 1 2 3 4 5 6 7 8 9 a b c d e f
ten eleven fifteen

- Seventeen is written in hex as 0x11 (with the prefix "0x").