

B. 10	B. 2	B. 8	B. 16
127	<del>11111111</del>	177	7F
21	10101	25	15
57	11101	71	39
171	10101011	253	AB

$$127 = 100 + 20 + 7$$

$$= 1 \times 10^2 + 2 \times 10^1 + 7 \times 10^0$$

$$2 \overline{)127} \begin{array}{l} 63 \text{ R1} \\ 31 \text{ R1} \\ 15 \text{ R1} \\ 7 \text{ R1} \\ 3 \text{ R1} \\ 1 \text{ R1} \\ 0 \text{ R0} \end{array}$$

$$64 \ 32 \ 16 \ 8 \ 4 \ 2 \ 1 = 127$$

$$+++++$$

$$8 \overline{)127} \begin{array}{l} 15 \text{ R7} \\ 8 \downarrow \\ 47 \\ -40 \\ 7 \\ 1 \text{ R7} \\ 8 \downarrow \\ 15 \\ -8 \\ 7 \\ 0 \text{ R1} \\ 8 \downarrow \\ 1 \\ -0 \end{array}$$

$$127_{10} = 177_8$$

$$16 \overline{)127} \begin{array}{l} 7 \text{ R15} \\ 112 \\ -112 \\ 15 \\ 0 \text{ R15} \end{array}$$

$$16 \overline{)15} \begin{array}{l} 0 \text{ R15} \\ 15 \\ -15 \\ 0 \end{array}$$

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$$16 \overline{)15} \begin{array}{l} 0 \text{ R15} \\ 15 \\ -15 \\ 0 \end{array}$$

$$1111111_2$$

$$7 + 7 + 7 + 7 + 7 + 7 + 7$$

$$1 \times 8^2 + 7 \times 8^1 + 7 \times 8^0$$

$$64 + 56 + 7 = 127_{10}$$

$$1111111_2$$

$$7 \text{ F } 16$$

$$7 \times 16^1 + F \times 16^0$$

$$112 + 15 = 127_{10}$$

$$7 \text{ R15}$$

$$16 \overline{)127} \begin{array}{l} 7 \text{ R15} \\ 112 \\ -112 \\ 15 \end{array}$$

$$16 \overline{)7} \begin{array}{l} 0 \text{ R7} \\ 7 \\ -7 \\ 0 \end{array}$$

$$21 = 10101$$

$$2 \times 8^1 + 5 \times 8^0 = 21_{10}$$

$$\begin{array}{r} 2 \text{ R } 5 \\ 8 \overline{) 21} \\ \underline{-16} \\ 5 \end{array}$$

$$\begin{array}{r} 1 \text{ R } 5 \\ 16 \overline{) 21} \\ \underline{-16} \\ 5 \end{array}$$

$$1 \times 16^1 + 5 \times 16^0 = 21_{10}$$

$$\begin{array}{r} \text{R } 2 \\ 8 \overline{) 2} \\ \underline{-0} \\ 2 \end{array}$$

$$\begin{array}{r} 0 \text{ R } 1 \\ 16 \overline{) 1} \\ \underline{-0} \\ 1 \end{array}$$

$$\begin{aligned} AB &= 10 \times 16^1 + 11 \times 16^0 \\ &= 160 + 11 = 171 \end{aligned}$$

$$\begin{array}{r} 28 \text{ R } 1 \\ 2 \overline{) 57} \\ \underline{-41} \\ 17 \\ \underline{-16} \\ 1 \end{array}$$

$$\begin{array}{ccccccc} 0 & 1 & 1 & 1 & 0 & 0 & 1 \\ 32 & 16 & 8 & & & & 1 \end{array} = 57$$

$$\begin{array}{r} 3 \text{ R } 9 \\ 16 \overline{) 57} \\ \underline{-48} \\ 9 \end{array}$$

$$3 \times 16^1 + 9 \times 16^0 = 48 + 9 = \boxed{57}$$

$$\begin{array}{r} 14 \text{ R } 0 \\ 2 \overline{) 28} \\ \underline{-28} \\ 0 \end{array}$$

$$\begin{array}{r} 0 \text{ R } 3 \\ 16 \overline{) 3} \\ \underline{-0} \\ 3 \end{array}$$

$$\begin{array}{ccccccc} 1 & 0 & 1 & 0 & 1 & 0 & 1 \\ 2 & 5 & & & 3 & & \end{array}$$

$$\begin{array}{r} 7 \text{ R } 0 \\ 2 \overline{) 14} \\ \underline{-14} \\ 0 \end{array}$$

$$\begin{array}{r} 3 \text{ R } 1 \\ 2 \overline{) 7} \\ \underline{-6} \\ 1 \end{array}$$

$$\begin{aligned} 2 \times 8^2 + 5 \times 8^1 + 3 \times 8^0 \\ 128 + 40 + 3 = 171 \end{aligned}$$

$$\begin{array}{r} 1 \text{ R } 1 \\ 2 \overline{) 3} \\ \underline{-2} \\ 1 \end{array}$$

$$\begin{array}{r} 0 \text{ R } 1 \\ 2 \overline{) 1} \\ \underline{-0} \\ 1 \end{array}$$

$$\begin{array}{r} 0 \text{ R } 0 \\ 2 \overline{) 0} \\ \underline{-0} \\ 0 \end{array}$$