

$$1.a) \begin{array}{r|l} 241 & 16 \\ 15 & 1 \\ 0 & 15 \rightarrow F \end{array} \uparrow$$

$$\begin{array}{lll} A=10 & C=12 & E=14 \\ B=11 & D=13 & F=15 \end{array}$$

$$F=1$$

$$c) \begin{array}{r|l} 176 & 16 \\ 11 & 0 \\ 0 & 11 \rightarrow B \end{array} \uparrow \quad B0$$

$$b) \begin{array}{r|l} 16 & \times 0,42 \\ 6 & ,72 \\ B=11 & ,52 \\ 8 & ,32 \\ 5 & ,12 \\ 1 & ,92 \\ E=14 & ,72 \end{array} \downarrow$$

$$0,6851E$$

$$\begin{array}{r|l} 16 & \times 0,47 \\ 7 & ,52 \\ 8 & ,32 \\ 5 & ,12 \\ 1 & ,92 \\ E=14 & ,72 \\ B=11 & ,52 \\ 8 & ,32 \end{array} \downarrow \quad B0,7851E8$$

$$2. a) 2A3 = 3 \times 16^0 + 10 \times 16^1 + 2 \times 16^2 = 3 + 160 + 512 = 675$$

$$\begin{aligned} b) 4F, 2E &= 4 \times 16^1 + 15 \times 16^0 + 2 \times 16^{-1} + 14 \times 16^{-2} \\ &= 64 + 15 + 0,125 + 0,0546875 \\ &= 79,1796875 \end{aligned}$$

$$\begin{aligned} c) 2E5, F &= 2 \times 16^2 + 14 \times 16^1 + 5 \times 16^0 + 15 \times 16^{-1} \\ &= 512 + 224 + 5 + 0,9375 \\ &= 741,9375 \end{aligned}$$

3. a) 0011 1001, 1101
3 9, D

b) 0001 0011, 1101 0101 0101
1 3, D $\overline{5}$

4. a) B 5 C
1011 0101 1100

b) 4 F B, 5 $\overline{7}$
0100 1111 1011, 0101 $\overline{0111}$