

Worksheet 10 Solution

March 18, 2020

Question 1

a.

$$(165)_8 = 5 \times 8^0 + 6 \times 8^1 + 1 \times 8^2 \quad (1)$$

$$= 5 + 48 + 64 \quad (2)$$

$$= 117 \quad (3)$$

b. **Reference Table**

Number	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G
Value	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

$$(B4)_{16} = 11 \times 16^0 + 4 \times 16^1 \quad (1)$$

$$= 4 + 176 \quad (2)$$

$$= 180 \quad (3)$$

Question 2

Question 3