

# 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 |

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

$$= 11 + 64 \quad (2)$$

$$= 75 \quad (3)$$

## Question 2

## Question 3