5. 177_{10}

177/2 = 88 R1
88/2 = 44 R0
44/2 = 22 R0
22/2 = 11 R0
11/2 = 5 R1
5/2 = 2 R1
2/2 = 1 R0
1/2 = 0 R1

$= \boxed{10110001_2}$

6. 245_{10}

245/2 = 122 R1
122/2 = 61 R0
61/2 = 30 R1
30/2 = 15 R0
15/2 = 7 R1
7/2 = 3 R1
3/2 = 1 R1
1/2 = 0 R1

$= \boxed{11110101_2}$

Convert the following binary numbers to decimal

7. $11100001_2 = 1 \cdot 2^7 + 1 \cdot 2^6 + 1 \cdot 2^5 + 0 \cdot 2^4 + 0 \cdot 2^3 + 0 \cdot 2^2 + 0 \cdot 2^1 + 1 \cdot 2^0$

$128 + 64 + 32 + 0 + 0 + 0 + 0 + 1$

$= \boxed{225_{10}}$

8. $11_2 = 1 \cdot 2^1 + 1 \cdot 2^0$

$2 + 1$

$= \boxed{3_{10}}$