1a)

100110112 = 1 + 2 + 8 + 16 + 128 = 155

b)

11011012 = 1 + 4 + 8 + 32 + 64 = 109

c)

3A816 = 11 1010 10002 = 8 + 32 + 128 + 256 + 512 = 936

d)

22145 = 4 + 5 + 50 + 250 = 309

2a)

6910

69/2 = 34 R 1

34/2 = 17 R 0

17/2 = 8 R 1

8/2 = 4 R 0

4/2 = 2 R 0

2/2 = 1 R 0

½ = 0 R 1

Therefore, 10001012

b)

48510

485/2 = 242 R 1

242/2 = 121 R 0

121/2 = 60 R 1

60/2 = 30 R 0

30/2 = 15 R 0

15/2 = 7 R 1

7/2 = 3 R 1

3/2 = 1 R 1

½ = 0 R 1

Therefore, 111001012

c)

6D1A16 = 0110 1101 0001 10102