Hansen Chen

1a. 100110112

=2­7+24+23+2+1

=128+16+8+2+1

=144+10+1

=15510

1b. 11011012

=26+25+23+22+1

=64+32+8+4+1

=96+12+1

=108+1

=10910

1c. 3A816

=3\*162+10\*16+8

=768+160+8

=936

1d. 22145

=2\*53+2\*52+5+4

=250+50+5+4

=309

2a. 6910

69/2=34 1

34/2=17 0

17/2=8 1

8/2=4 0

4/2=2 0

2/2=1 0

1/2=0 1

=1000101

2b. 48510

485/2=242 1

242/2=121 0

121/2=60 1

60/2=30 0

30/2=15 0

15/2=7 1

7/2=3 1

3/2=1 1

1/2=0 1

=111100101

2c. 6D1A16

6=0110, D=13=1101, 1=0001, 11=1011

=0110110100011011