Laboratory Worksheet #01
Number Systems Exercise

Convert the following decimal numbers to binary:

1) 14 — 1110

2) 189 — 1011 1101

3) 257 — 0001 0000 0001

4) 472 — 0001 1101 1000

Convert the following decimal numbers to hex:

5) 14 — 0xE

6) 189 — 0xBD

7) 257 — 0x101

8) 472 — 0x1D8

Convert the following hex numbers to decimal:

9) 0x37 — 55

10) 0xAB — 171

11) 0x0147 — 327

12) 0x2AE1 — 10977

Convert the following hex numbers to binary:

13) 0x37 — 0011 0111

14) 0xAB — 1010 1011

15) 0x0147 — 0000 0001 0100 0111

16) 0x2AE1 — 0010 1010 1110 0001

Convert the following binary numbers to hex:

17) 0010 1101 — 0x2D

18) 1010 1010 — 0xAA

19) 1110 0011 — 0xE3

20) 0010 1001 1011 0101 — 0x29B5

Convert the following binary numbers to decimal:

21) 0010 1101 — 45

22) 1010 1010 — 170

23) 1110 0011 — 227

24) 0010 1001 1011 0101 — 10677

When complete, include Worksheet 1 with your Laboratory 1-1 Pre-lab submission.