Chapter 6 Review Questions

Convert decimal 92 to binary
92/2 0
46/2 0
23/2 1
11/2 1
5/2 1
2/2 0
1/2 1 92 (decimal) = 1011100 (binary)

Convert 110110 to decimal
110110
2^5 + 2^4 + 0 + 2^2 + 2^1 + 0
32 + 16 + 0 + 4 + 2 +0
48 + 6
54 110110 (binary) = 54 (decimal)

Convert 92 to hexadecimal
92/16 12
5 92 (decimal) = C5 (hexadecimal)

Convert 1A2B to decimal
1A2B
1 = 1 A = 10 2 = 2 B = 11
1(16^3) + 10(16^2) + 2(16^1) + 11(16^0)
4096 + 2560 + 32 + 11 = 6699
1A2B (hexadecimal) = 6699 (decimal)