1. a. 10011011_2
   $(2^7*1) + (2^6*0) + (2^5*0) + (2^4*1) + (2^3*1) + (2^2*0) + (2^1*1) + (2^0*1)$
   155
   b. 1101101_2
   $(2^6*1) + (2^5*1) + (2^4*0) + (2^3*1) + (2^2*1) + (2^1*0) + (2^0*1)$
   109
   c. $3A8_{16}$
   $(16^2*3) + (16^1*A) + (2^0*8)$
   936
   d. 2214_5
   $(5^3*2) + (5^2*2) + (5^1*1) + (5^0*4)$
   309
2. a. 69_{10}
   64+4+1
   $(2^6*1)+(2^2*1)+(2^0+1)$
   1000101
   b. 486_{10}
   256 + 128 + 64 + 32 + 4 + 2
   $(2^8*1) + (2^7*1) + (2^6*1) + (2^5*1) + (2^4*0) + (2^3*0) + (2^2*1) + (2^1*1) + (2^0*0)$
   111100110
   c. $6D1A_{16}$
   using the hexa to 4 digit binary chart
   0110110100011010