Hexadecimal conversion exercises

1. **Convert the following binary numbers to hexadecimal**
   1. **110101112 = D716**

**1101=13=D 0111=7**

* 1. **111010102  = EA16**

**1110=14=E 1010=10=A**

* 1. **100010112 = 8B16**

**1000=8 1011=11=B**

* 1. **101001012  = A516**

**1010=10=A 0101=5**

1. **Convert the following hexadecimal numbers to binary**
   1. **3716 = 001101112**

**3=0011 7=0111**

* 1. **ED16 =111011012**

**E=14=1110 D=13=1101**

* 1. **9F16 =100111112**

**9=1001 F=15=1111**

* 1. **0A2116 =00001010001000012**

**0=0000 A=10=1010 2=0010 1=0001**

1. **Convert the following hexadecimal numbers to decimal**
   1. **E716 = 23110**

**(14\*16)+7= 231**

* 1. **2C16 = 4410**

**(2\*16)+12=44**

* 1. **9816 = 15210**

**(9\*16)+8= 152**

* 1. **02F116 = 24310**

**((0\*16)+2)+((15\*16)+1)= 243**

1. **Convert the following decimal numbers to hexadecimal**
   1. **5410 = 3616**

**54/16=3 remainder 6**

* 1. **20010 = C816**

**200/16=12 remainder 8**

* 1. **9110 = 5B16**

**91/16=5 remainder 11**

* 1. **23810 = EC16**

**238/16=14 remainder 12**