

1)

Binário: **100100110 Base Dada**

Octal: **446** $100 = 4 / 100 = 4 / 110 = 6 = 446$

Decimal: **294** $4*8^2+4*8^1+4*8^0 = 294$

Hexadecimal: **126** $0001 = 1 / 0010 = 2 / 0110 = 6 = 126$

2)

Binário: **1011101100** $1 = 001 / 3 = 011 / 5 = 101 / 4 = 100 1011101100$

Octal: **1354 Base Dada**

Decimal: **748** $1*8^3+3*8^2+5*8^1+4*8^0 = 748$

Hexadecimal: **2EC** $0010 = 2 / 1110 = 14 (E) / 1100 = 12(C) = 2EC$

3)

Binário: **11011000110010** $3 = 0011 / 6 = 0110 / 3 = 0011 / 2 = 0010 =$

Octal: **33062** $010 = 2 / 110 = 6 / 000 = 0 / 011 = 3 / 011 = 3 = 33062$

Decimal: **13874 Base Dada**

Hexadecimal: **3632** $13874/16 = 867(\text{Resto: } 2) / 867/16 = 54(\text{Resto: } 3) / 54/16 = 3(\text{Resto: } 6) / 3/16 = 0(\text{Resto: } 3) = 3632$

4)

Binário: **0001000000010001** $1 = 001 / 0 = 000 / 0 = 000 / 2 = 010 / 1 = 001 0001000000010001$

Octal: **10021** $= 4113/8 = 514(\text{Resto: } 1) / 514/8 = 64(\text{Resto: } 2) / 64/8 = 0(\text{Resto: } 0) / 8/8 = 1$

$(\text{Resto: } 0) / 1/8 = 0(\text{Resto: } 1) = 10021$

Decimal: **4113** $= 1*16^3+0*16^2+1*16^1+1*16^0 = 4113$

Hexadecimal: **1011 Base Dada**

5)

Binário: **10111101111 Base Dada**

Octal: **2757** $= 010 = 2 / 111 = 7 / 101 = 5 / 111 = 7$

Decimal: **1519** $= 2*8^3+7*8^2+5*8^1+7*8^0 = 1519$

Hexadecimal: **5EF** $0101 = 5 / 1110 = 14(E) / 1111 = 15(F)$

6)

Binário: **NÃO EXISTE**

Octal: **3879 Base Dada, não válida**

Decimal: **NÃO EXISTE**

Hexadecimal: **NÃO EXISTE**

7)

Binário: **11000011010100000** $1 = 0001 / 8 = 1000 / 6 = 0110 / A(10) = 1010 / 0 = 0000$

00011000011010100000

Octal: **303240** $000 = 0 / 011 = 3 / 000 = 0 / 011 = 3 / 010 = 2 / 100 = 4 / 000 = 0$

Decimal: **100000 Base Dada**

Hexadecimal: **186A0** $100000/16 = 6250(\text{Resto: } 0) / 6250/16 = 390(\text{Resto: } 10(A)) / 390/16 = 24$
 $(\text{Resto: } 6) / 24/16 = 1(\text{Resto: } 8) / 1/16 = 0(\text{Resto: } 1) 186A0$

8)

Binário: **101010111100110111101111** $= A(10) = 1010 / B(11) = 1011 / C(12) = 1100 / D(13) = 1101$
 $/ E(14) = 1110 / F(15) = 1111 101010111100110111101111$

Octal: **52746757** = 101 = 5 / 010 = 2 / 111 = 7 / 100 = 4 / 110 = 6 / 111 = 7 / 101 = 5 / 111 = 7
52746757

Decimal: **11259375** $5*8^7+2*8^6+7*8^5+4*8^4+6*8^3+7*8^2+5*8^1+7*8^0 = 11259375$

Hexadecimal: **ABCDEF Base Dada**