3ap. 1 (A) DE C >BIN 02(10) = 10(2) · 38(10) = 1100010(2) · 1000(10) = 1111101000(2) 64 32 16 8 4 2 1 512 256 128 64 32 16 8 4 2 1 1 1 1 1 1 0 1 0 0 0 056(10) = 111000(2) 32 16 8 4 2 1 1 1 1 0 00 0 11/(10) = 1101111(2) 64 32 16 8 4 2 1 · 3/(10) = 1/1/1/(2) 16 3 4 21 . 45(10) = 901101(2) 1 1 1 1 1 32 16 3 4 2 1 · 32(10) = 100000(2) 8192 4086 2048 1024 512 256 128 64 32 16 8 4 2 1 1 1 1 0 0 1 1 1 1 0 1 0 0 1 B) BIN DEC 10(2) = 2(10) 11101(2) = 16+8+4+1=29(10) 1111(2) = 8+4+21=15(10) 11110(2) = 16+8+4+2=30(10) 11011(2)=16+3+2+1=27(10) 1001(2) = 8+1=9(10) 1110111(2) = 64+32+16+4+2+1=119(10) 11001100(2) = 128+64+8+4=204(10) 1010101010(2)=512+128+32+8+2=682(10)

```
C) DEC SHEX
  · 48(10) = 30(16)
                     100m 12)
  . 156(10):16=9
                    (0cm 3)
   9:16=0
  156(10) = 3 C(16)
 0 32 lm; 16 = 20 (ocm. 1)
20: 16 = 1 (ocm. 4)
1: 16 = 0 (ocm. 1)
 321(10) = 141(16)
· 255(10): 16 = 15 (ocm. 15)
 15: 16:0 (ocm. 15)
 255(10) = FF(16)
64:16=64 (ocm 0)

4:16=0 (ocm 0)

(ocm 4)
1024(10) = 400(16)
8(10) = 8(16)
100(10): 16=6 (ocm.4)
 6 : 16 = 0 (ocm. 6)
100(10) = 64(16)
14567 (10):16 = 910 (ocm 7)
 310 16 = 56 (scm 14)
 postal 46x2
 56:16 = 3
 3 16 -0 (ocm. 3)
14567(10) = 38E7
```

```
* 2020(10): 16 = 126 (0cm. 4)
126: 16 = 7 (0cm. 14)
7: 16 = 0 (0cm. 7)
2020(10) = 7 E 4
```

```
D) HEX >DEC
A(16) = 10(10)
100(16)= 256110)
16 1
3 E(16) = 16.3+1.14= 48+14=62(10)
(EA(16) = 256 + 14.16+ 10 = 256 + 224+10 = 430(10)
ADC(16) = 2560+16. M+12=2 748(10)
Efap= 16.14+15=224+15=233(10)
5 B 2(16) = 256.5 + 16.11+3 = 1280 + 176+3 = 1459(10)
14 C(16)= 256+4.16+12=256+64+12=332
2720(16) = 2.4096+256.10+16.2+11 = 8192+2560+32+11 = 10 +95(10)
US$ 35616 1
                                                    00000
 E) HEX >BEN
 B(16) = 1011(2)
 200(16) = 10 0000 0000 (2)
 3E(16) = 11 1110(2)
                                                   1000 8
 1EA(16) = 1 1110 1010 (3)
                                                   10019
 CAB(19) = 11001010101011(2)
                                                  101010
 EDOM = 1110 1101 (2)
                                                  1011 11
                                                  110012
 JB3(16) = $111 1011 0011 (2)
                                                  11011
                                                  11 1 0 14
 24 ((16) = 10 0100 1100 (2)
                                                 11 1 1 1 15
 3A2D(16) = 11101000101101
```

 $f) BIN \Rightarrow HEX$ 110(2) = 6(6) 1100101(2) = 65(16) 110011(2) = 33(16) 101110110(2) = 176(16) 1011(2) = 8(16) 111101(2) = 3D(16) 11001011(2) = CB(16)

6) DEC => OCT
•
$$8(10) = 10(8)$$

• $56(10): 8 = 7 (0)$
 $7: 8 = 9 (7)$
• $56(10): 8 = 3 (7)$
• $31(10): 8 = 3 (7)$
• $3: 8 = 0 (3)$
• $31(10) = 37(8)$
• $7(10) = 7(8)$
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$$\begin{array}{c} .14825(10) & ...$$

```
41) \ 0CT \rightarrow DEC
25(8) = 2.8+5 = 21(10)
10(8) = 8(00)
24(8) = 16+4 = 20(10)
4(2) = 7
2(2) = 2
621(2) = 64.6+8.2+1 = 401(10)
45(2) = 8.4+5 = 37(10)
34(3) = 8.3+4 = 28(10)
34(3) = 8.3+4 = 28(10)
5423(3) = 512.5+64.4+8.2+3 = 2.560+2.56+19 = 2.835(10)
```

```
I) Tipourna 60 > Tembajomurna 60
  · 120(3) = 9+6-15/10) = 33(4)
   15(10) 4=3 (3) 3:4=0 (3)
  0 10(3) = 3(10) = 3(4)
  · 21(3) = 7(10) = 13(4)
     7 4=1 (3)
  02110(3) = 66(10) = 1002(4)
   66:4=16 (2)
16:4=4 (0)
4:4=1 (0)
1:4=0 (1)
 0 112(3) = 14(10) = 32(4)
   14: 4:3 (2)
3:4=0 (3)
· 111221(3) = 243+81+27+18+6+1 = 376(10) = 11320(4)
   376 : 4=94 (6)
   94:4=23 (2)
   23:4=5 (3)
  5:4=1 (1)
 1:4=0 (1)
0100(3) = 9(10) = 21(4)
 9:4=2 (1)
 2:4=0 (2)
0 110(3) = 12(10) = 30(4)
 12: Y=3 (0)
3: Y=0 (3)
 81 27 9 3 1
0 11001(3) = 81+27+1=109(10) = 1231(4)
109:4=27 (1)
27:4=6 (3)
6:4=1 (2)
1:4=0 (1)
```