Number Conversions Wednesday, 13 October 2021 4:30 PM

> Number Systems: av. Denany b. Binony e. Hexar-Decinal. DENARY Number System: 0.1.2,3,4,5,6,7,8,9 Base = 10 5 6 9 2 position 10° 7 Base 1 -> Worth 1000 Most (5) 6 9 2 Significant
> Significant A A K X Digit
>
> Digit. 1000 100 10 1
>
> Sood + 600 + 90 + 2 = 5692 Number)
>
> Magnifuel. NUMBER SySTEM: か光・ 1 1 0 0 1 0 0 0 5 Position 27 26 25 24 23 22 21 20 Base 128 64 32 16 8 4 2 1 3 Worth 1 1 0 0 1 0 0 1 mpnt
>
> 128 64 32 16 8 4 2 1 Joséport. 128 + 64 + 0 + 0 + 8 + 0 + 0 + 0 = [200] Minimum amount I data that a computer Saves is an byte. Byte is 8-bits arrangement. 9+ is necessary that a binary mober should be woither in multiples of 8-13ts. Q. Convert following binan, to denomy. 1. $(01100100)_{2} = (?)_{10} = (100)_{10}$ 2. (00011111) = (?) = (31)₁₀ (01000001) 10 32 100 31 0 65 \bigcirc 55 79 175 C 8 200 A 10 B 11 D 13 EM F15 Convert Sollowing denary
>
> 1. (90) 2 (?) miss into binary: 2. (150) E (?) 3. (240) 2 (?) $(63)_{10} = (?)_{2}$ Den 64 32 128 16 90 240 0 Hexa-Deamarl Nuntre Lysten: Hexa = 6 0,1,2,3,4,5,6,7,8,9 Decind = 10 + A, B, C, D, E, FHexa-Decinal Digit/Hex. 4-0 16

- One Byte holds two 40 digits. Hex 6C 24

A 10

Bn

C 12

1) 13

EM

R 13

1111

108 64 32 16 8 4 2 1
108 0 1 1 0 1 1 0 0
142 0 0 1 0 1 0 1 0 1 0
63 6 0 1 1 1 1 1 1 1
110 0 1 1 0 0 1 1 0
115 0 1 1 1 0 0 1 1 3F 6E73 Q. Convert Lollowing to Hex.

2. (110) = (?)

2. (01110011) 2 (?)