Decimal Humbers.

103 102 108 1 - 6 1 - 1 - 5 1 - 6 Octal Numbers

82 8 8 82 8

Binary Number

1010 1010 2²2²2° Hera Nonhers

0,1,2,3,4,5,6,7,8,9 A,B,C,D,E,F

12FE 4111 16²16²16¹

Binary to decimal

()
$$(10101)_2 = (?)_{10}$$

() $(2057)_8 = (?)_{10}$

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Octal to Decimal

(1)
$$(2057)_8 = (?)_{10}$$
 $= 2$
 $= 2$
 $= 2 \times 8 + 0 \times 8 + 5 \times 9 + 7 \times 8$
 $= 2 \times 512 + 0 + 5 \times 8 + 7$
 $= 1024 + 40 + 7$
 $= (1071)_{10}$

①
$$(1AF)_{16} = (?)_{10}$$

$$= 16^{2} 16^{3} 16^{3} 16^{3} (1AF)_{16} = (431)_{10}$$

$$= 1 \times 16^{2} + A \times 16^{3} + F \times 16^{3}$$

$$= 2 \times 6 + 10 \times 16 + 15 \times 16^{3}$$

$$= 2 \times 6 + 160 + 15$$

$$= (431)_{10}$$

Binary/Octal/Hexa -> Decimel Multiplication

Decimal to Binary

2	48	,	
2	24	0	
2	12	0	
2	6	0	
2	3_	0	
-	1	1	
,	\(\text{\text{y}} \)		
(110000)2			

@ Decimal to Octal

8	208	
8	26	
	3	2
•	×	3
	(32	0)8

3 Decimal to Hera

$$0 (254)_{10} = (?)$$

onversion short cuts

$$(010110101)^{2} = (3)^{8}$$

$$(562)_8 (?)_2$$

$$(2AB) = (?)_2$$

$$2 A B$$

$$(000101010101)_2$$

$$(341)_{8} = (7)_{2}$$

 341
 $(011 100 001)_{2}$

Saturday, December 31, 2022 3:37 PM

(onversion of fractional Nowber. $2^{\frac{1}{2}} = 0.5$ (110. 101) $2^{\frac{1}{2}} 2^{\frac{1}{2}} 2^{\frac{1}{2}}$ $2^{\frac{1}{2}} = 0.125$ $2^{\frac{1}{2}} 2^{\frac{1}{2}} 2^{\frac{1}{2}}$ $2^{\frac{1}{2}} = 0.125$ $2^{\frac{1}{2}} 2^{\frac{1}{2}} 2^{\frac{1}{2}}$ $2^{\frac{1}{2}} = 0.125$ $2^{\frac{1}{2}} = 0.125$

 $\begin{array}{lll}
\$ (127.54)_{8} = (?)_{10} \\
= 1 \times 8^{2} + 2 \times 8 + 7 \times 8 \cdot 5 \times 8 + 4 \times 8 \\
= (87.6874)_{10}
\end{array}$

Binay Divisor 110100001 - 1100 - 000 - 000 - 000 - 1001

