Conversion Lab Scratch Work

$$ABC_{1G} = A(10) \quad B(11) \quad C(12)$$

$$1010 \quad 1011 \quad 1100$$

$$2^{3}2^{2}2^{1}2^{0}$$

$$= 101,010,111,100,2$$

$$5 \quad 2 \quad 7 \quad 4$$

$$= 5 \times 8^{3} + 2 \times 8^{2} + 7 \times 8^{1} + 4 \times 8^{\circ}$$

$$= 2748$$

$$10 \times 16^{2} + 11 \times 16^{4} + 12 \times 16^{6}$$

$$= 2448$$

$$||0||00||_{154}^{2} = ||10||00||_{154}^{2}$$

$$= |154||_{8}^{2}$$

$$= ||10||00||_{6}^{2}$$

$$= ||6||_{12}^{2}$$

$$= ||6||_{16}^{2}$$

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Base 10 Base 2 Base 8 Base 16 = 1111111 = 144 = 7F127 = 10101 = 25 = 1521 = 111001 == 57 71 39 = 10101011 = 253 = AB171

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127_{10} = 7 \times 16 + 15 \times 16^{\circ}
      = 7Fi
      = 7
                         1111
        111
      = 111111112
      = 177
10|0|_{2} = 19|0|,
25
      = 10101
     = 1516
     = 1 \times 16 + 5 \times 16^{\circ}
     = 2110
712 = 7
                      8
                     100
     = 3016
     = 3 x 16 + 12 x 16°
     = 48 + 12
      = 60
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 $AB_{16} = A(10) \qquad B(11)$ $= 1010 \qquad 1011$ $= 10,0101011_{2}$ = 2538 $= 10 \times 16 + 11 \times 16^{\circ}$ = 160 + 11 $= 171_{10}$