Transfer from base 10 to base 16

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Decimal system (base number 10)

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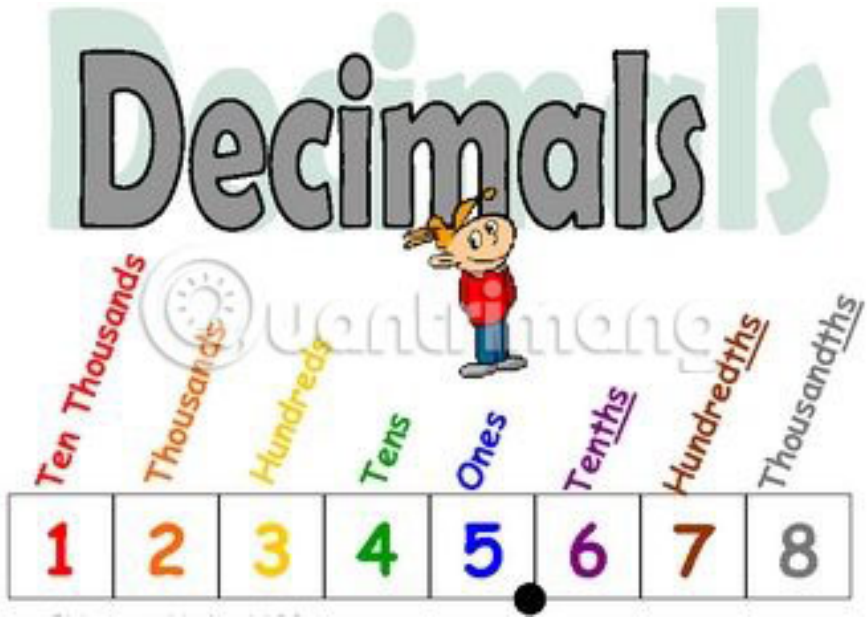
One of the oldest known digital systems, the decimal system has been used by many ancient civilizations. The difficulty in expressing very large numbers in the decimal system has been overcome by the Hindu-Arabic counting system. Hindu counting system - Arabic provides the location for the digits in a number. Each position is equivalent to a power of 10, starting with the rightmost position before the decimal point is 10^0 .



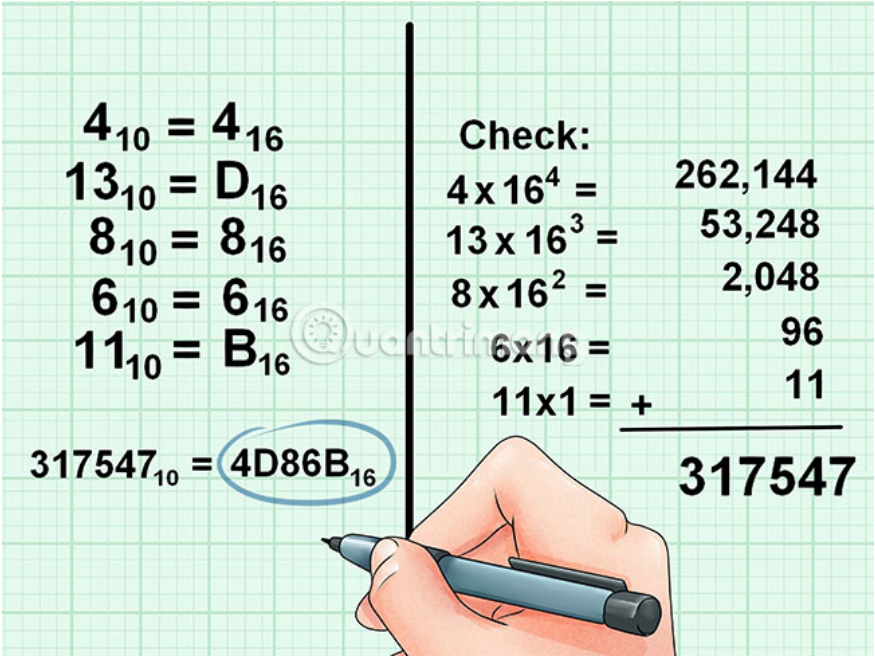
Example number **2345.67** in decimal:

1. The 5th digit is in the unit row ($10^0 = 1$),
2. 4th digit in the tens position (10^1)
3. 3rd digit in the hundreds position (10^2)
4. Number 2 in the thousands position (10^3)
5. Meanwhile, digit 6 after the decimal point is located at 1/10 (10^{-1}) and 7 is at 1/100 (10^{-2}).

Therefore, number **2345.67** can also be performed as follows: $(2 * 10^{3}) + (3 * 10^{2}) + (4 * 10^{1}) + (6 * 10^{-1}) + (7 * 10^{-2})$.

Example of base 10 conversion to base 16:

1. $(79)_{10} = (4F)_{16}$
2. $(120)_{10} = (78)_{16}$
3. $(1728)_{10} = (6C0)_{16}$



Hexadecimal (base number 16)

Hexadecimal, Hex or hexadecimal number systems use radix systems 16 and are a popular choice to denote long binary values, because their format is much smaller and easier to understand than strings. long binary contains only 2 values ??1 and 0.

Mechanical conversion table 10 to base 16

Base system 10 System No. 160 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 10 A 11 B 12 C 13 D 14 E 15 F
Explore more:

1. Switch from base 2 to base 16
2. Switch from base 16 to base 2