1. **What is binary number system? What symbols does it use? What is the value of the places in the binary system?**

Binary system is a number system used by computers. Binary system is the most efficient method for computers in the economic perspective, and with the help of transistor it is used. A binary number system consists of two symbols, 0 and 1. Each value of the places in the binary system is expressed as powers of two, from the right-hand side. For example, 2^0, which is the first-place value.

1. **What is the decimal number system? What symbols does it use? What is the value of the places in the decimal number system?**

Decimal system is number system used by us humans from the civilization period and it is most common method for counting used in the world. The decimal system consists of 10 symbols: 0,1,2,3,4,5,6,7,8, and 9. From the right-hand side the value of the places is expressed as powers of ten.

1. **What is the hexadecimal number system? What symbols does it use? What is the value of the places in the hexadecimal number system?**

Hexadecimal system is a number system is mostly used to remember binary digits, since 1 hexadecimal is equivalent to 4-bit digits and vice versa. The system consists of 16 symbols: 0,1,2,3,4,5,6,7,8,9, A, B, C, D, E, and F. Each value of the places in the system is expressed as powers of sixteen.

1. **How many symbols do you think would be used in a base 7 number system? What would they be?**

There would be 7 symbols used in the 7-number system and they are 0,1,2,3,4,5, and 6. The value of the places would be expressed a power of 7.

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| **BINARY** | **DECIMAL** | **HEXADECIMAL** |
| **0000 0001** | 1 | 1 |
|  | **8** |  |
|  |  | **10** |
| **0100 0000** |  |  |
|  | **78** |  |
|  |  | **4F** |
| **0101 1010** |  |  |
|  | **100** |  |
|  |  | **7F** |
|  | **255** |  |