**The space shown every four bits is for readability only.**

**Show all leading zeros.**

|  |  |
| --- | --- |
| 1. Binary = 1001  Decimal = 9  = (1x20)+(0x21)+(0x22)+(1x23)  = 1+0+0+8  = 9 | 2. Binary = 1011  Decimal = 11  = (1x20)+(1x21)+(0x22)+(1x23)  = 1+2+0+8  = 11 |
| 3. Binary = 0101  Decimal = 5  = (1x20)+(0x21)+(1x22)+(0x23)  = 1+0+4+0  = 5 | 4. Binary = 0111  Decimal = 7  = (1x20)+(1x21)+(1x22)+(0x23)  = 1+2+4+0  = 7 |
| 5. Binary = 1111 1111  Decimal = 255  =(1x20)+(1x21)+(0x22)+(1x23)+(1x24)+(1x25)+(0x26)+(1x27)  = 1+2+4+8+16+32+64+128  = 255 | 6. Binary = 1101 0001  Decimal = 209  =(1x20)+(0x21)+(0x22)+(0x23)+(1x24)+(0x25)+(1x26)+(1x27)  = 1+0+0+0+16+0+64+128  = 209 |
| 7. Binary = 0001 0011  Decimal =19  =(1x20)+(1x21)+(0x22)+(0x23)+(1x24)+(0x25)+(0x26)+(0x27)  = 1+2+0+0+16+0+0+0  = 19 | 8. Binary = 0101 0010  Decimal = 82  =(0x20)+(1x21)+(0x22)+(0x23)+(1x24)+(0x25)+(1x26)+(0x27)  = 0+2+0+0+16+0+64+0  = 82 |
| 9. Binary = 0001 0110  Decimal = 22  =(0x20)+(1x21)+(1x22)+(0x23)+(1x24)+(0x25)+(0x26)+(0x27)  = 0+2+4+0+16+0+0+0  = 22 | 10. Binary = 0001 1100  Decimal = 28  =(0x20)+(0x21)+(1x22)+(1x23)+(1x24)+(0x25)+(0x26)+(0x27)  = 0+0+4+8+16+0+0+0  = 28 |