**CHES 5th grade Math club, 2015 December 11**

1. Fill out the table:

|  |  |  |  |
| --- | --- | --- | --- |
| **Base 10 (Decimal)** | **Base 2 (Binary)** | **Base 3 (Ternary)** | **Base 16 (Hexadecimal)** |
| 1 |  |  |  |
| 2 |  |  |  |
| 4 |  |  |  |
| 9 |  |  |  |
| 10 |  |  |  |
| 50 |  |  |  |
| 64 |  |  |  |
| 81 |  |  |  |

1. What are these numbers in base 10?
   1. 1 in base 3 (13)
   2. 1011 in base 2 (10112)
   3. 2B16
   4. 2003
   5. 1100112
   6. 1016
   7. 778
   8. 1111112
   9. 10016
   10. 1000000002
   11. 4616
   12. 1001102
2. Fill out the table:

|  |  |
| --- | --- |
| Addition of numbers in base 2 | Answer in base 10 |
| 1000  + 11 |  |
| 11  + 11 |  |
| 1011  + 110 |  |

1. Fill out the table:

|  |  |  |
| --- | --- | --- |
| Addition of numbers in base 16 | Answer in base 16 | Answer in base 10 |
| 9 + 4 |  |  |
| 48 + 78 |  |  |
| 591 + A7C |  |  |