

Practice with Number Bases

- 1) List the numbers up to 30_{10} in base 3. (Your last number should be 1010_3 .)
- 2) Construct addition and multiplication table squares in base 3.
- 3) Try the following arithmetic problems, working in base 3.
 - a. $21_3 + 22_3$
 - b. $201_3 - 12_3$
 - c. $21_3 \times 102_3$
 - d. $1001_3 \div 21_3$
- 4) Check your answers by converting the problems into base 10