Work the following exercises in your journal.

1. List the symbols used by the base four system.
2. List the place values for the base four system.
3. Write the equivalent base ten numeral for each of the following numerals.
   - (a) $32_4$
   - (b) $221_4$
   - (c) $1213_4$
4. Count to 40 using base four numerals. That is, list the first 40 base four numerals starting with 1.
5. Write the equivalent base four numeral for each base ten numeral below.
   - (a) 86
   - (b) 319
   - (c) 4683
6. Give three examples of numerals that could NOT be base four numerals.
7. Write the equivalent base four numeral for each base six numeral below.
   - (a) $25_6$
   - (b) $21435_6$
   - (c) $4121_6$