1. Find the mean, median, mode, and range of the following set of numbers. Does the distribution look familiar?

   5, 5, 2, 2, 1, 5, 6, 1, 5, 2, 1, 3, 1, 4, 5, 1, 2, 1, 2, 2, 4, 4, 2, 1, 4, 1, 5, 3, 3, 1, 6, 6, 6, 6, 6, 6, 5, 5, 6, 4, 5, 5, 3, 5, 5, 6, 2, 3, 4, 5, 1, 1, 5, 6, 6, 1, 3, 2, 3, 6, 5, 1, 1, 3, 3, 5, 5, 3, 1, 4, 3, 1, 1, 6, 5, 2, 6, 5, 4, 6, 5, 5, 4, 1, 4, 1, 4, 4, 3, 2, 3, 3, 2, 2, 1, 6, 3, 5, 2, 6

2. Find the prime factorization of the following integers

   (a) 96
   (b) 1,575
   (c) 182
   (d) 385
   (e) 697

3. Find the GCD and LCM of these pairs

   (a) 16 and 28
   (b) 60 and 156
   (c) 455 and 78
   (d) 97 and 771

4. Multiply 10101_2 and 101_2 two different ways:

   (a) By converting to base ten, multiplying, then converting to base 2.
   (b) By multiplying the numbers in base 2.
   (c) Which way was easier?

5. Find a divisibility rule for numbers divisible by 7 in base 8.

6. Find a divisibility rule for 11 in base 10. Show that it works using place values.