1 GCD and LCM

Problem 1. For each of the following pairs of numbers, find the GCD and the LCM using prime factorization:

(a) 168 and 280

(b) 2100 and 19250

(c) $2^4 \cdot 5^2 \cdot 7^3 \cdot 13$ and $2 \cdot 3^2 \cdot 5 \cdot 7^4 \cdot 11$ (Leave your answers factored for this part)
Problem 2. For each of the following pairs of numbers, find the GCD and the LCM using the Euclidean Algorithm:

(a) 168 and 280

(b) 2100 and 19250

(c) 54587 and 55913

(d) Try doing part (c) with prime factorization. What do you think makes this so much harder?
2 Reading Assignment

Read the following sections of your textbook before the next class: 6.1, 6.2

Keywords: Numerator, Denominator, Area or Regional Model, Linear Measurement Model, Set Model, Equivalent Fractions, Fraction Addition, Mixed Numbers, Improper Fractions, Fraction-Division Equivalence

You should also read through the teaching sequence given in section 6.1.