Homework 7 extra problems

(You can print this page out and write on it if you don't want to copy all these lists onto your homework paper)

Question 1. A, B, C, and D are dividing up this list of 90 letters using the method of markers. A likes only consonants (including y). There are 73 consonants in this list. B likes only letters in the first half of the alphabet (A through M, there are 53 of them in this list), and C likes all letters equally. D likes only vowels (not including y). Here are the letters that they are dividing:

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rupstsrmoumphkafdnimzqyacjqdkslkhiymwpakluzdvyyjyhilhhhcnaucjciqjggugaweynfckzgzkdgtfmxjsk
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Use the method of markers to decide who gets what letters, and which are left over.

Question 2. A, B, and C are dividing up this bunch of pogs (P) and frogs (F). (There are 20 of each in this list here.) A thinks that the pogs are worth 2¢ each, and the frogs are worth 1¢ each. B likes only the pogs. C thinks that they all have the same value. Here is the list of stuff:

P P F P F P P P F P P F F F P F F F F P F F F F P P F F F F P P P P F F P P F P P

Use the method of markers to decide who gets what, and which are left over.

Hint: to figure out where to place the markers for A, notice that there is 60¢ of total value here (20×2¢ for the pogs, plus 20×1¢ for the frogs). So A should place markers to get about 20¢ in each portion.