Fourth Handout:

How can we make this look like the previous problem? …

Starting with three numbers: N_1, N_2, N_3

1) What combinations could we possibly have, using each number at most once? (for instance, $N_1 + N_2$ is one)

2) From our three numbers N_1, N_2, and N_3, make FOUR new numbers as follows:

$$M_1 = 0$$

$$M_2 = N_1$$

$$M_3 = N_1 + N_2$$

$$M_4 = N_1 + N_2 + N_3$$

   Compare the differences of the M's with the combinations from the first question.

3) What does the Third Handout tell us about these four M's?

4) What does question 3 tell us about the three N's?