

Handout: Magic Threes Extension

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

Starting with three numbers: N_1 , N_2 , and 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 *Magic Threes* Handout tell us about these four M 's?
4. What does question (3) tell us about the three N 's?