Math 4a. Homework 1.

1. Mary and Julia are twins. They invited 28 friends to their birthday party. Mary wrote 3 time as many invitation cards as Julia did. How many cards did Julia write? (Draw a schematic picture of the problem if it can help you.)

2. Find missing digits:

$$\begin{array}{r} 3\square 0\,5\square \\ \times\quad 8\square\square \\ \hline \square\square\square 4\,5 \\ +\ \square 9\,6\square\square \\ \hline 2\square\square\square\square\square 0 \end{array} \qquad \begin{array}{r|l} \square\square\square & \\ \hline 8 & \square\square\square\square \\ -3\square & \\ \hline 2\square & \\ -\square\square & \\ \hline 0 & \end{array}$$

3. Place parentheses into the following expression so that the statement is true.
   a. $1\,5 - 3\,5 + 5 \div 4 = 5$
   b. $60 + 40 - 16 \div 4 = 66$
   c. $24 \div 56 - 8 \times 4 = 1$
   d. $96 - 12 \times 6 \div 3 = 8$
   e. $64 \div 64 - 8 \times 4 = 2$
   f. $63 \div 9 + 54 = 1$
   g. $75 - 15 \div 5 + 10 = 22.$

4. Peter and Robert went camping. They walked 14 km and rested. After the rest, they walked 6 km less than before the rest and stopped for the night. Now, they have to go three times the distance they have already covered. How long is the planned trip?

5. Solve the riddle (each letter represents a digit)

$$\begin{array}{r} \text{ELF} \\ +\ \text{ELF} \\ \hline \text{FOOL} \end{array}$$

6. There are three teams in the summer camp. There are 26 campers in the first team, in the second team there are 4 campers more than in the first, in the third team 7 campers less than in the second team. To play a game all campers formed two equal game teams. How many campers are there in each game team?