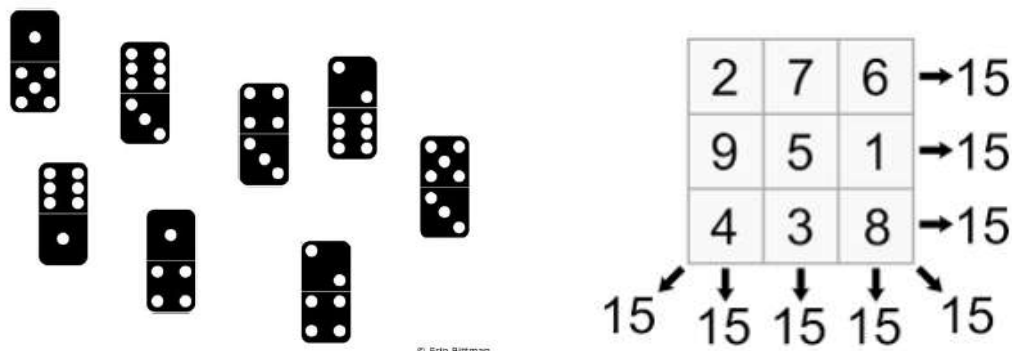


Mathletes Problem of the Week #7

Magic Dominoes?



A magic square is a square that is divided into smaller squares, each containing a number. The numbers are arranged such that the sum of the numbers in any horizontal, vertical, or main diagonal line is always the same (see image on right). Can you arrange the dominoes above to make a 4-by-4 magic square, so that all the rows, columns and diagonals add to 14?

You can cut out the dominoes on the attached page to help you solve the puzzle. Each time you create a new arrangement, check if all 10 rows, columns, and diagonals sum to 14. If not, how many do? How many can you get to sum to 14?

Solutions & Explanations: (Draw out your best solution below or glue it to the back of this page. Make sure you indicate how many of the rows, columns, and diagonals have the correct sum.)

Name _____

Class _____

(First and last name, please!)

Solutions due: December 21st