



# Activity

- *Puzzle with Dominoes* -

## How to do the activity

### PREPARATION:

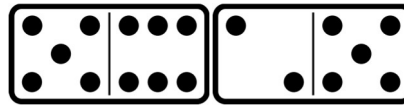
Hand out a copy of the Activity Sheet and a set of dominoes to each student. Remove the dominoes with a blank side (which represents zero). Only keep the dominoes that have sides with 1 to 6 dots.

### Materials:

- Activity Sheet
- Set of dominoes

### THE ACTIVITY:

The goal is to place dominoes to cover all the boxes of the puzzle. To place a domino, the sum of all the dots on the domino must correspond to the number indicated on the box. In this version of the game, the sides of the dominoes that touch must not necessarily have the same number. For example, this would be allowed:



There are several ways to place the dominoes in the puzzle. Many dominoes will be left at the end.

### THE CHALLENGE:

To make it harder, do the puzzles again using the same dominoes, but the sides of the dominoes that touch must have the same number.

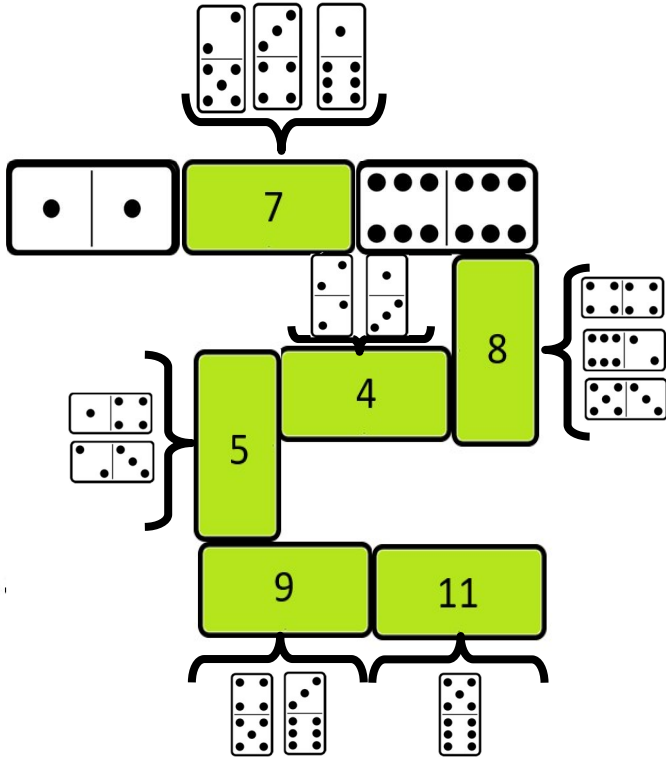


# Mathematical Explanation



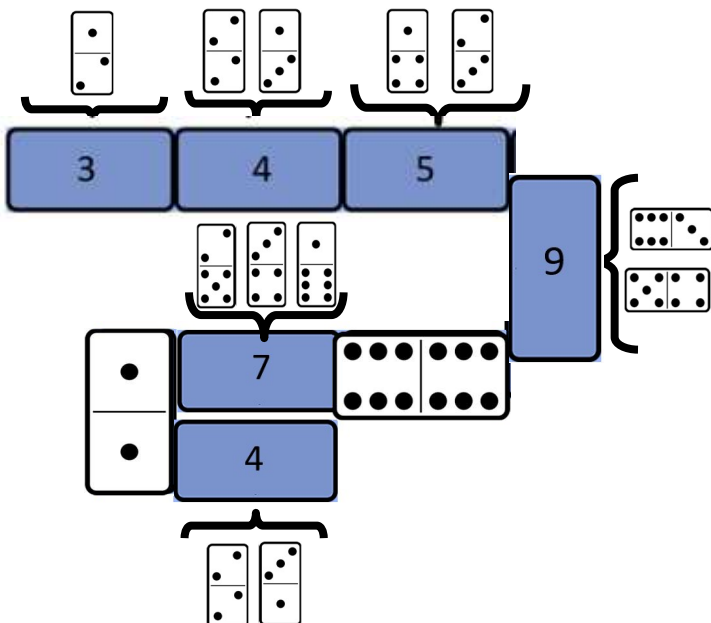
Puzzle 1:

The activity:

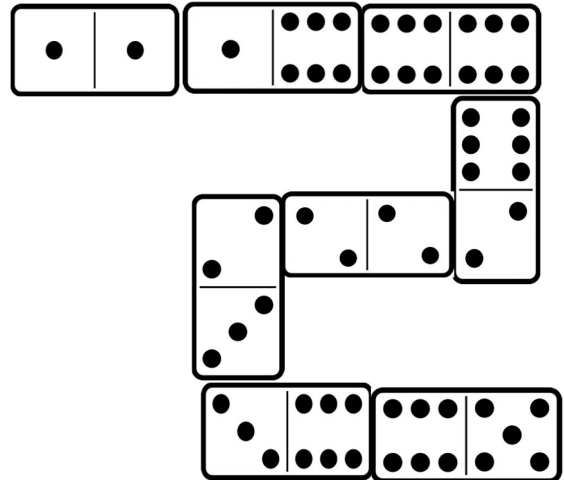


Puzzle 2:

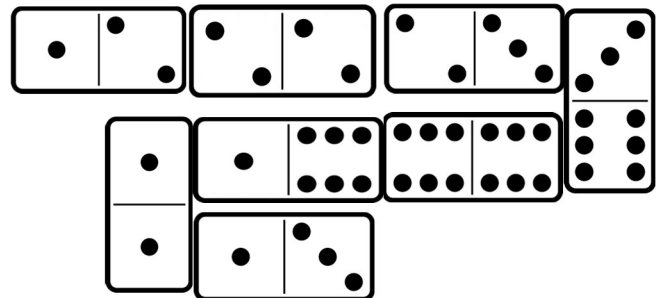
The activity:



The challenge:



The challenge:



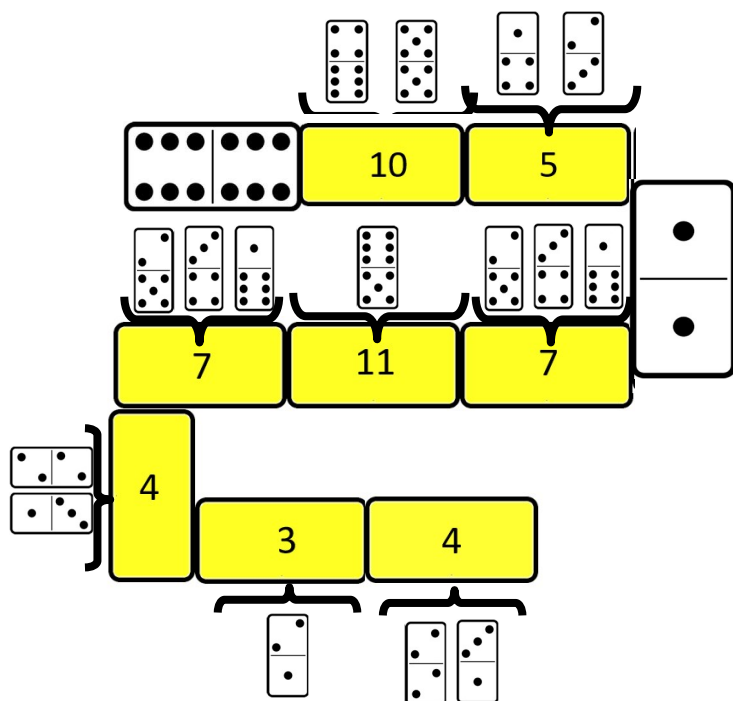


# Mathematical Explanation



Puzzle 3:

The activity:



The challenge:

