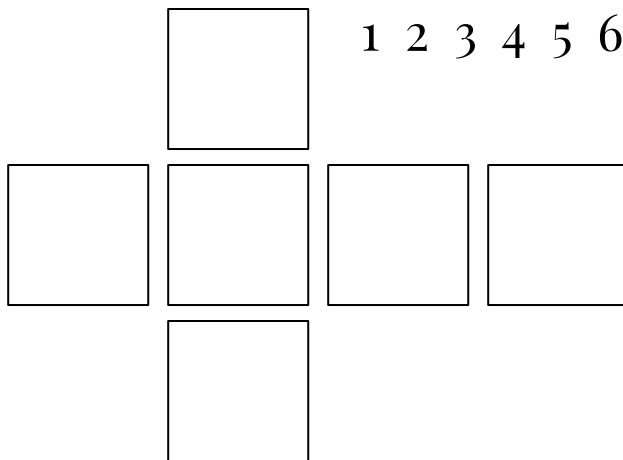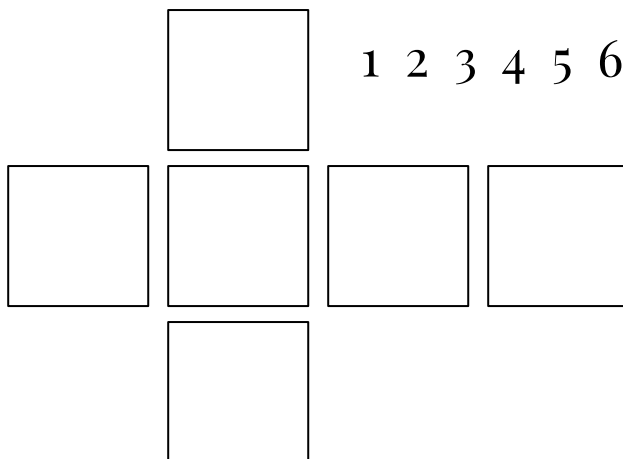# Plane Numbers

This is similar to last week's Dice Net Challenge. Read each puzzle carefully and remember, you can only use each number once in each puzzle! In case, you must use the numbers 1-6.
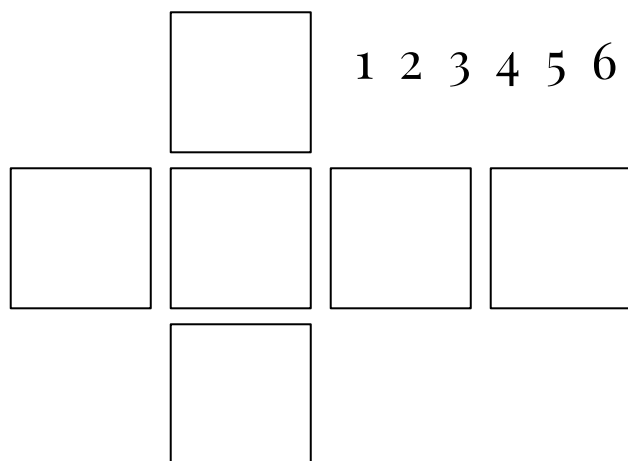
Puzzle 1

1 2 3 4 5 6

Arrange the numbers on the tiles so that the sum of the numbers in the vertical line is the same as the sum of the numbers in the horizontal line.
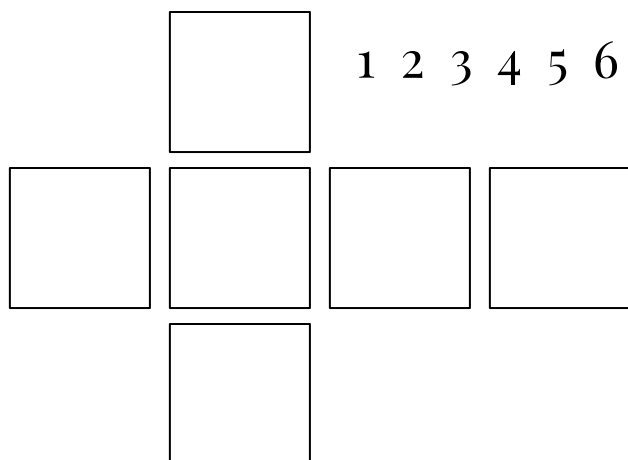
Puzzle 2

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the sum of the number in the horizontal line is one more than the sum of the number in the vertical line.
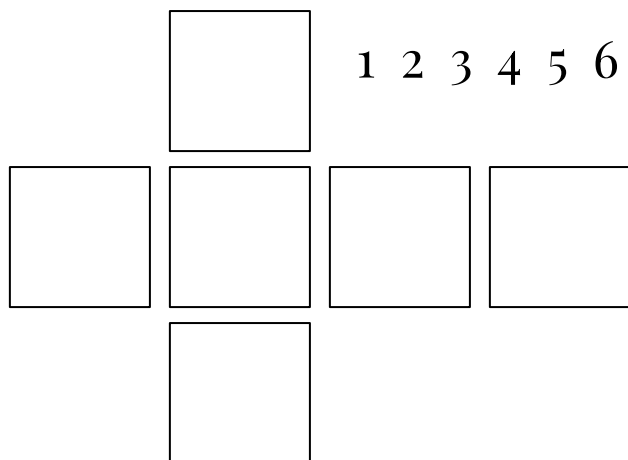
Puzzle 3

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the horizontal line is ten bigger than the vertical line.
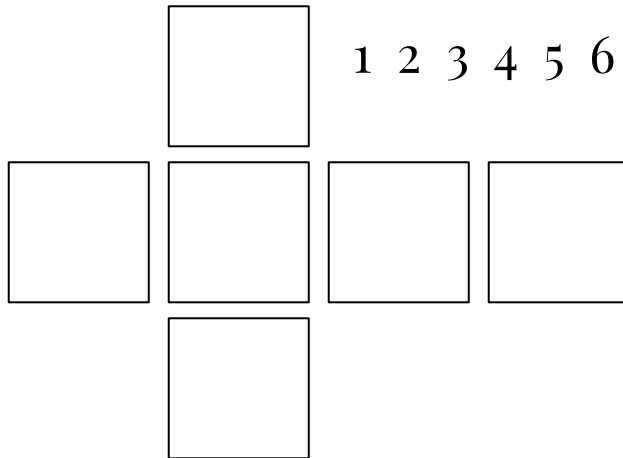
Puzzle 4

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the sum of the four numbers in the horizontal line is three times the sum of the three numbers in the vertical line.
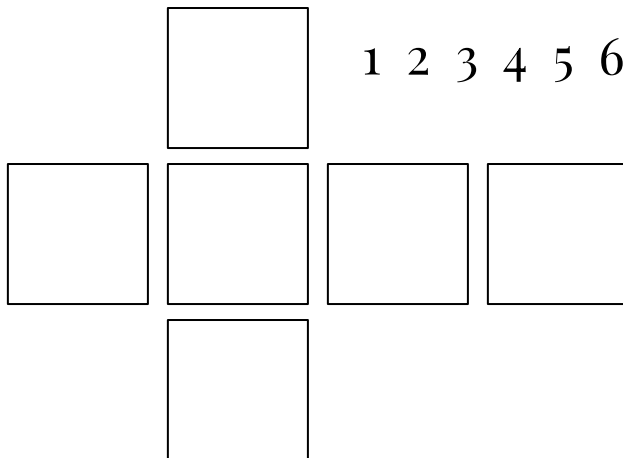
Puzzle 5

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the sum of the numbers in the vertical line is half of the sum of the numbers in the horizontal line.

Puzzle 6

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the sums of the lines are both square numbers.

Puzzle 7

1 2 3 4 5 6

Arrange the numbers on the yellow tiles so that the sums of both horizontal and vertical lines are multiples of 3.

You can find more of these puzzles at https://www.transum.org/software/SW/Starter_of_the_day/Students/Hot/Plane_Numbers.asp!