Saturday 18th April

The table below shows the possible results when you roll 2 dice and add the scores together.

Dice 1

+	1	2	3	4	5	6
1	2	3	4	5	6	7
2	3	4	5	6	7	8
3	4	5	6	7	8	9
4	5	6	7	8	9	10
5	6	7	8	9	10	11
6	7	8	9	10	11	12

Dice 2

Based on this table, the probability of getting a 12 is $^{1}/_{36}$, the probability of getting a 6 is $^{5}/_{36}$ etc..

It is possible to number the 2 dice differently, and yet keep all the probabilities above the same. Each face of the 2 new dice have positive integers on them, and a dice may have more than one of the same number on different faces. The two dice are not identical. What are the numbers on the two dice?

Dice 1

+						

Dice 2