

### The X-ray dice

**Difficulty: \*\***

**Preparation: \*\***

Make a small cardboard tube to hold three dice. Retrieve the two dice from the yellow multi-sided box. Your dice will allow you to read inside the tube; this is what you will have the audience believe.

You will explain that one person will place the three dice in the cardboard tube as they wish.

Only one side will remain visible to the magician.

You will be able to read all the dice faces in the tube by adding up the five faces.

If you add up the opposite sides of a dice, you will get a total of 7:  $[5 + 2] - [1 + 6] - [3 + 4]$

With the two dice below, the sum of the hidden faces is  $\rightarrow 14 : 7 + 7$

All you have to do is subtract the hidden face value from the visible dice to get your total:

If the visible side is the 3, then we will make the following mental calculation:

$7 - 3 = 4$  (hidden side of the dice visible) + Sum of the two hidden sides of the first dice = 7 and the second dice = 7.

In this example, we have  $\rightarrow 7 + 7 + 4 = 18$