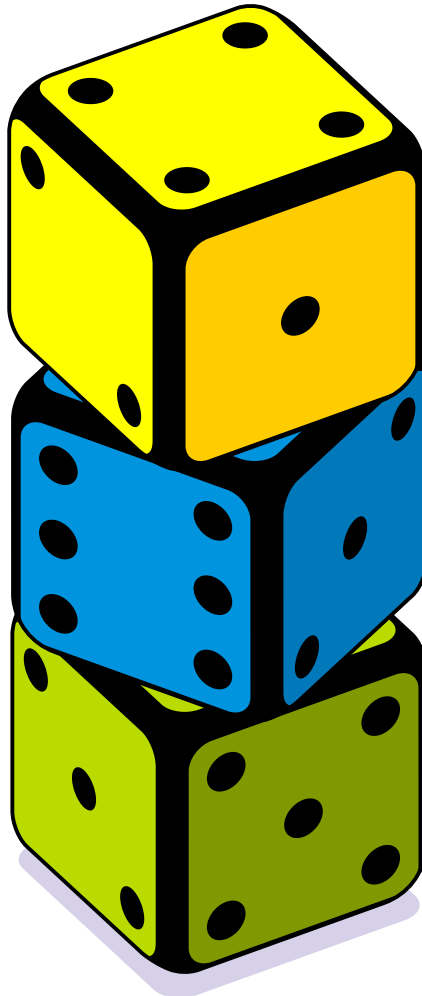


# The Three Dice Sum

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In a tower of three dice when you glance at the top face you can say exactly the sum of spots on five horizontal hidden faces: those on the four spaces where two dice touch each other and the face on the bottom of the tower. In this example the sum is 17.

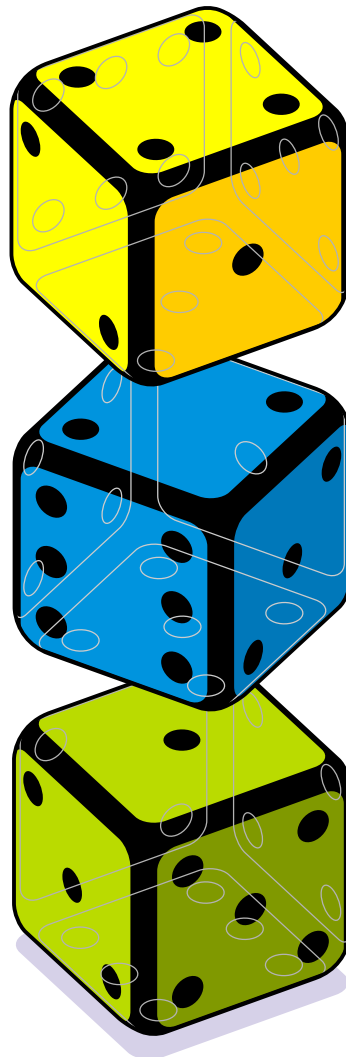
Can you explain what the trick is?

Posted: April 25, 2008

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## Solution



The top and bottom of each die in the tower add to 7, thus, always making 21 in total. Subtracting the number of spots on the top face from 21 you always get the right answer. In our case it is 17 because the number of spots on the top face is 4 ( $21 - 4 = 17$ ).