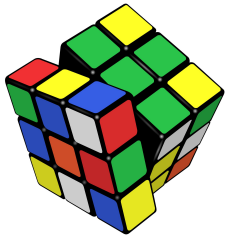
PUZZLE OF THE WEEK



Entries open: 05/11/18

Entries close: 11/11/18

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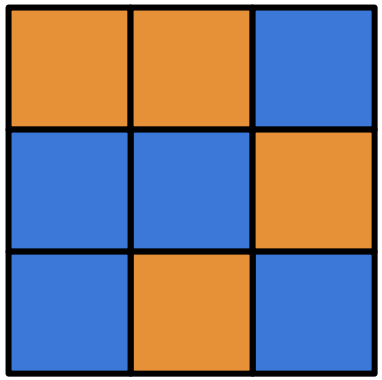
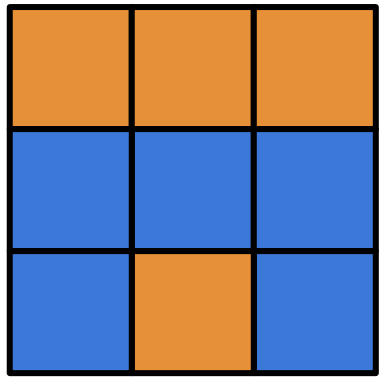
puzzle number 76

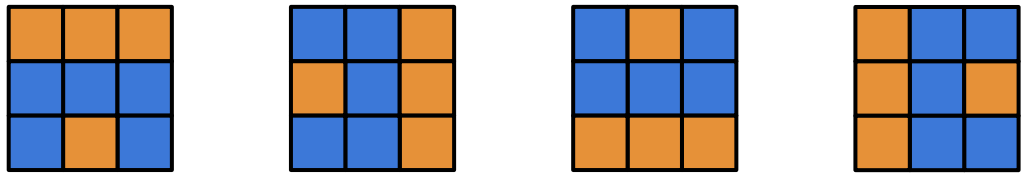
Rob is playing with his Rubik's cube. He arranges it so that on one face there is a pattern of 5 blue squares and 4 orange squares.



He then rearranges it again and again so that that the squares are in different patterns but the middle square is always blue.



If Rob can rotate the cube so that the pattern looks the same as another one, he does not count those patterns as different. The four patterns on the right are all the same.



How many different patterns can Rob make?

Extension: Would there be more patterns if he used 3 oranges and 6 blues? What about other combinations?

@asharpeducator

Puzzle created by Andrew Sharpe

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