

**Question:**

Take an 8 by 8 chess board and remove two opposite corners so that it has 62 squares. Is it possible to tile this 62 square board with 31 dominoes?

**Solution:**

No. There will be 30 squares of one colour, and 32 of the other on the altered chess board, yet each domino will cover one square of each colour. So you can't cover this board with 31 dominoes.

