contents and sample pages

Title	Domino Deductions
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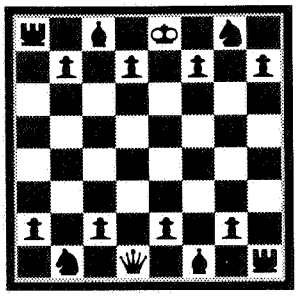
Impossipuzzle

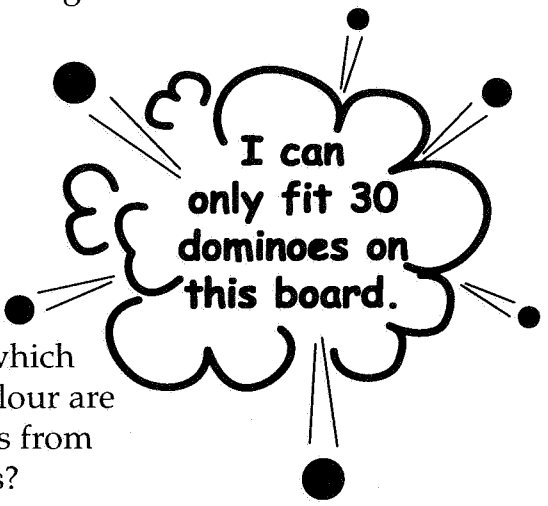


Try placing dominoes onto a chessboard (an 8 x 8 grid with every second square black). You should find each domino covers two squares, a black and a white one.

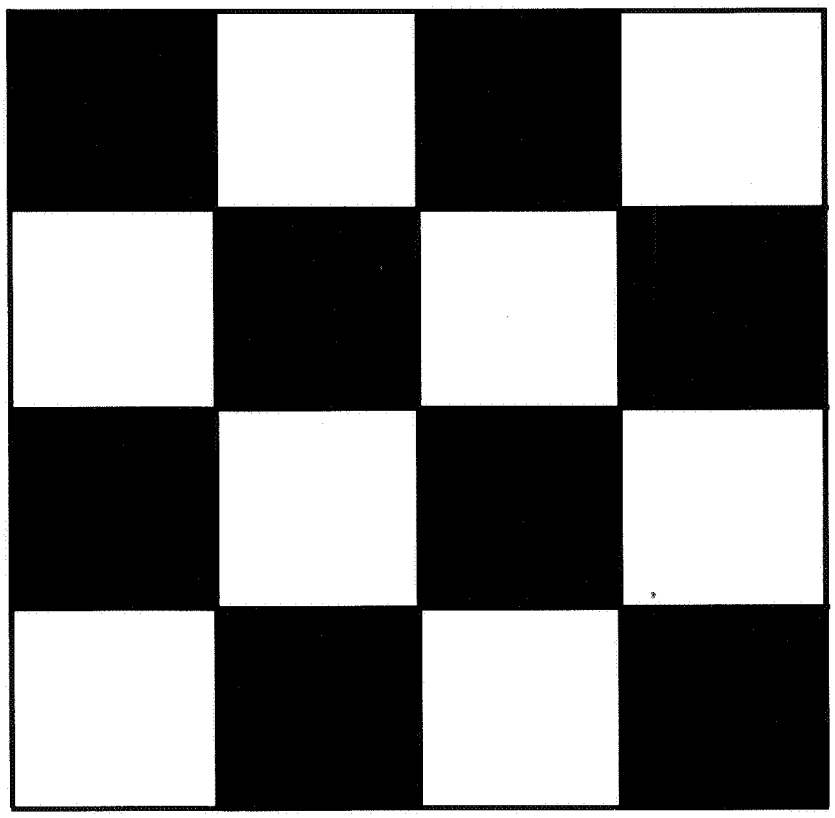
32 dominoes should cover 64 squares.

Now cut off one white square from each corner, which should leave you with 30 white squares and 32 black squares. Now try covering the board with dominoes.

31 dominoes should cover 62 squares.



Two squares will remain uncovered no matter which way dominoes are placed on the board. What colour are they? What happens if you cut two black squares from the corners of the board instead of white squares?

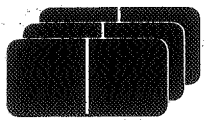


If you don't have a chessboard you can join four of these boards together to make one.

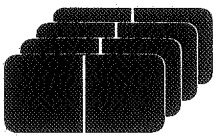
Domino Stacks

- When producing sets of dominoes all the dominoes of one particular type are stacked on top of one another.

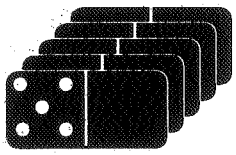
- Use the information supplied to work out which dominoes are being stacked. Often there is more than one answer.

1. 

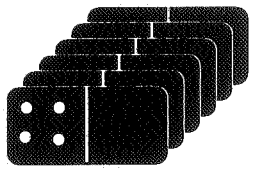
Total Dots = 21
What dominoes could they be?

2. 

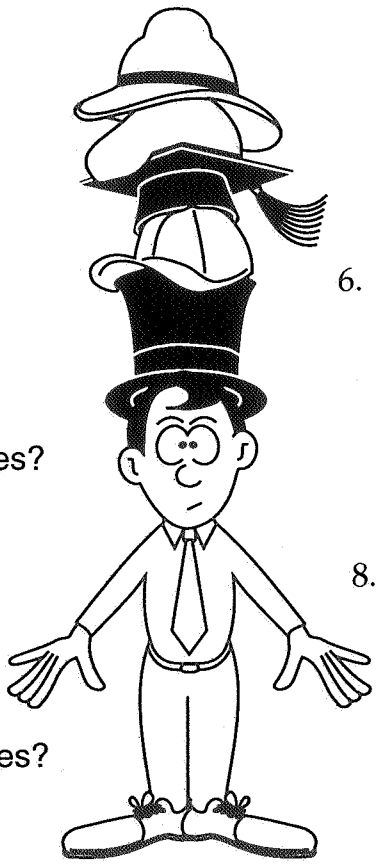
Total Dots = 32
What dominoes could they be?

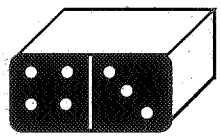
3. 

Total Dots = 45
Which domino is on top?

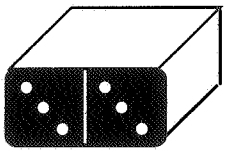
4. 

Total Dots = 42
Which domino is on top?

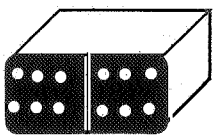


5. 

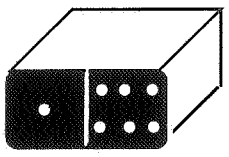
Total Dots = 63
How many dominoes?

6. 

Total Dots = 42
How many dominoes?

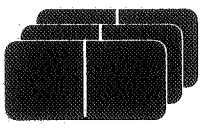
7. 

Total Dots = 72
How many dominoes?

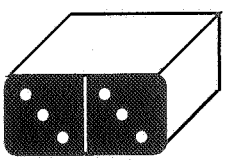
8. 

Total Dots = 56
How many dominoes?

Make up some of each type for a friend to try.



Total Dots = _____
What dominoes could they be?



Total Dots = _____
How many dominoes?