



keep on playing<sup>®</sup>



SMART GAMES<sup>®</sup>

 **STARTER** 1-15

 **JUNIOR** 16-30

 **EXPERT** 31-45

 **MASTER** 46-60



## GAME RULES

- 1 Choose a challenge and make sure you pay attention to the location of each penguin – you might have one or more penguins to position!

At STARTER/JUNIOR level you are given the form and the position of one or more puzzle pieces to get you off to a flying start, and to show you how the game works.

- 2 Arrange the 5 puzzle pieces on the game board, one next to the other so they all fit, and, at the same time, make sure all the penguins are positioned as indicated in the challenge:
  - To succeed you must change the shape of the pieces of ice by sliding the two parts of each puzzle tile up and down to find a shape that fits.
  - When the challenge shows fewer than 5 penguins, you can choose where to put the other penguins.
  - The direction the penguins face is not important. When you look at your challenge, you only need to pay attention to which position each penguin is in, not the direction.
- 3 There is only one correct solution. You can find all the solutions at the back of the challenge booklet.

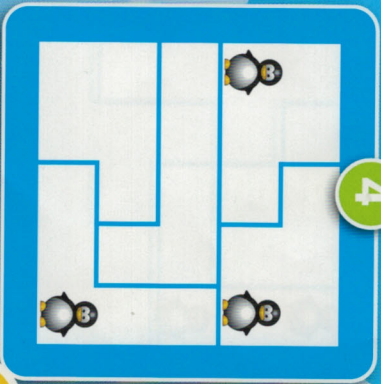
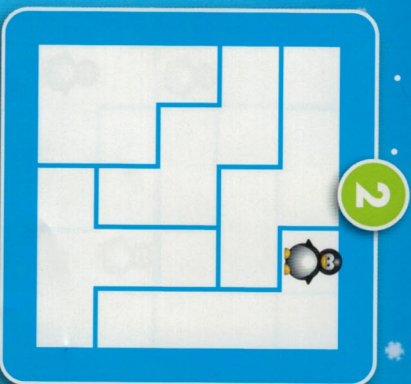
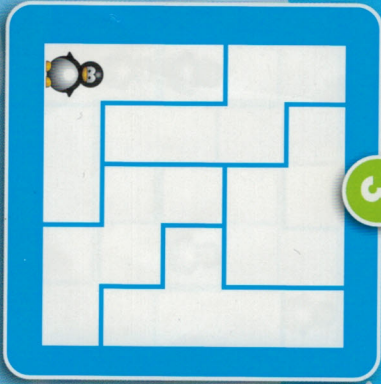
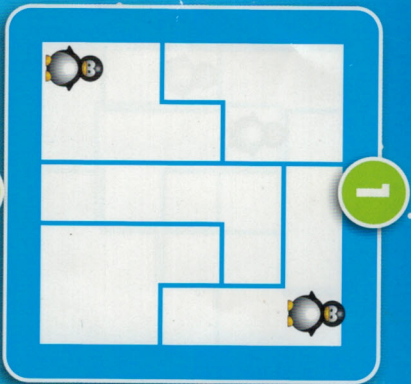
### About Pentominos

In 1953 Solomon W. Golomb introduced the term 'polymino' to describe shapes that are formed by putting equal squares together, edge to edge. Because a 'domino' consists of 2 squares that touch, Golomb suggested naming shapes formed with 3 squares 'trminos', those with 4 squares 'tetrominos', and so on.

So a 'pentomino' is a form consisting of 5 squares. It is possible to make 18 different pentomino shapes. Although you only have 5 puzzle pieces in Penguins on Ice, you can create 13 different pentomino shapes with them, because they can be shapeshifted!

### How to store all the parts to the game?

- All parts can be stored within the game, so you can play it wherever you go without losing any pieces.
- Remove the puzzle tiles and put the challenge booklet on the game board.
  - Place the 5 puzzle pieces on top of the booklet (solution 511)
  - Put the lid on the game board and secure it with the elastic strap provided, keeping all the pieces safe and ready for the next time you play.



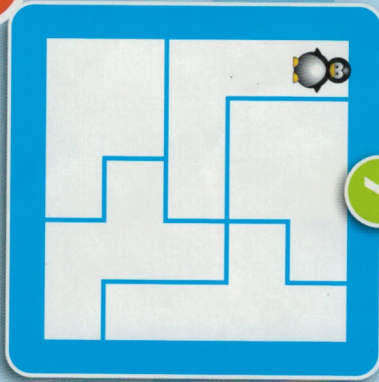
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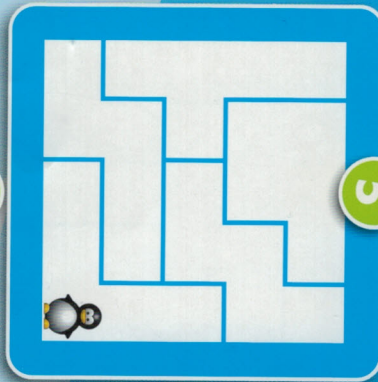




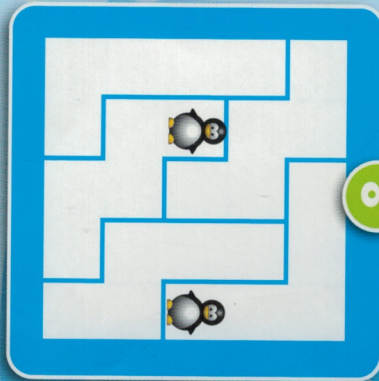
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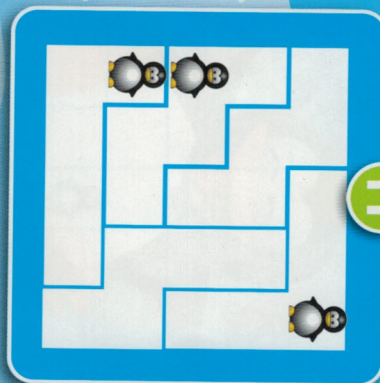
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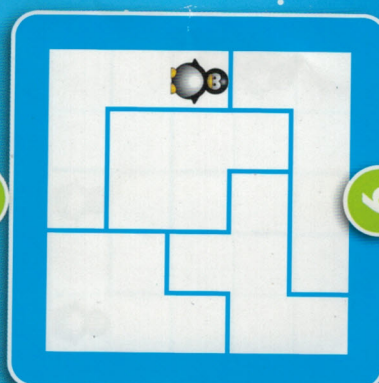
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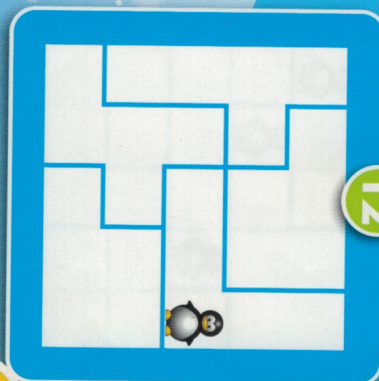
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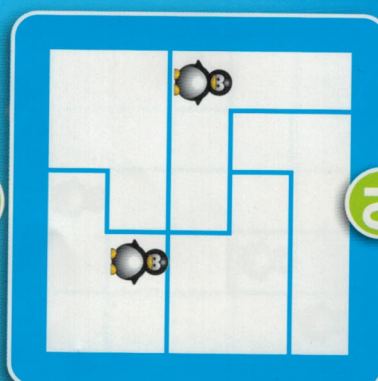
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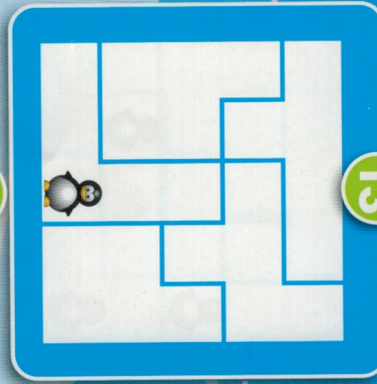
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# STARTER



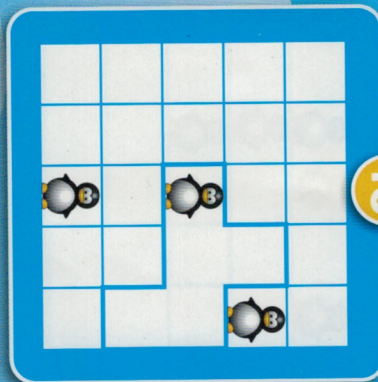
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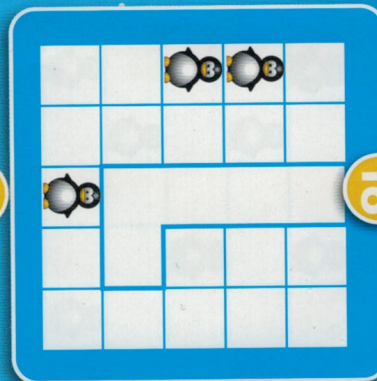
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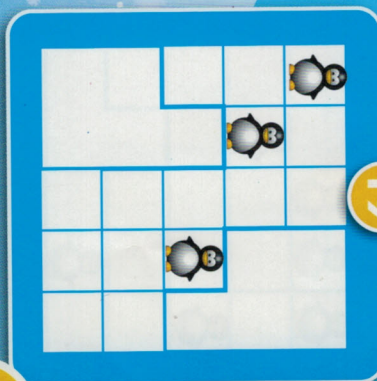
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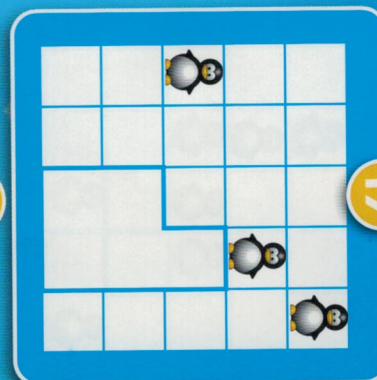
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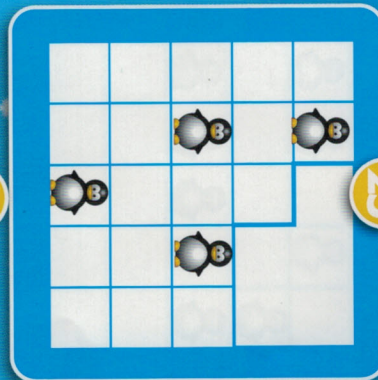
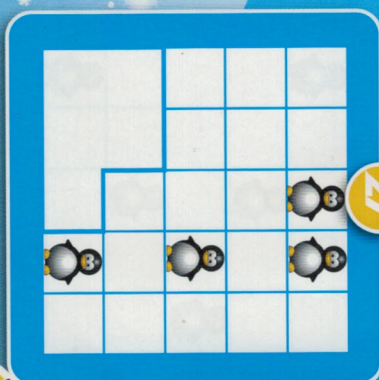
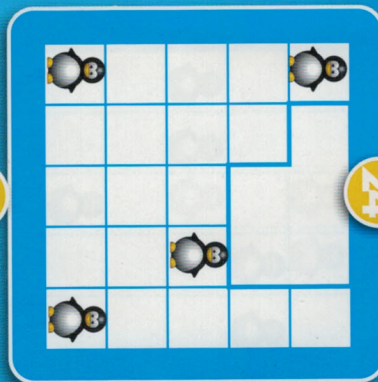
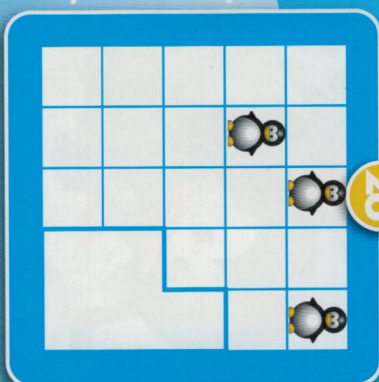
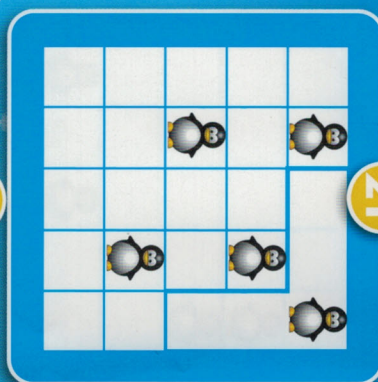
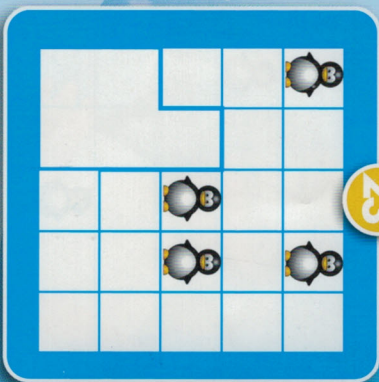
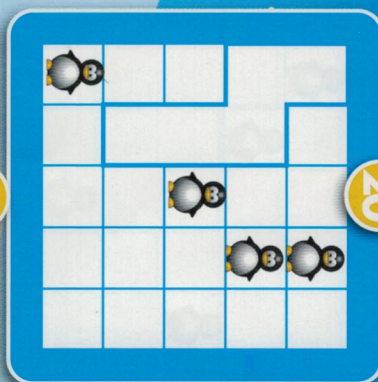
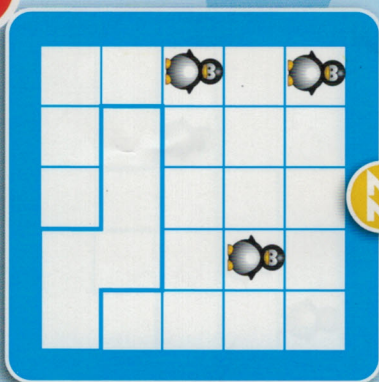


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# JUNIOR










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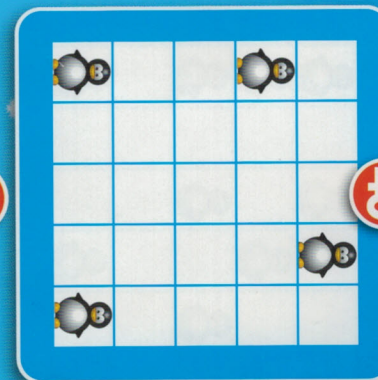
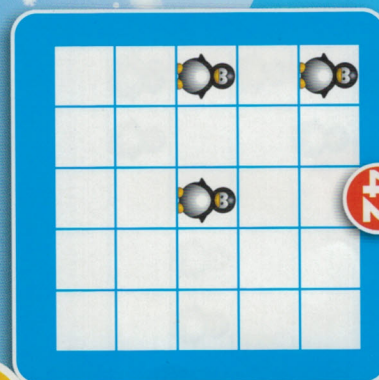
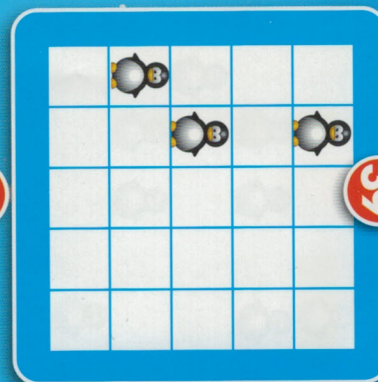
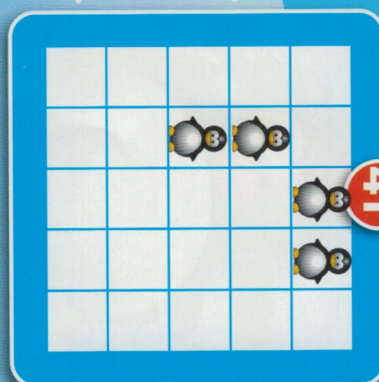
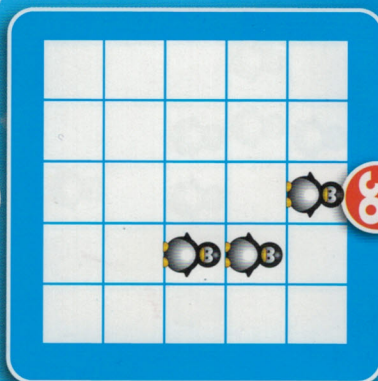
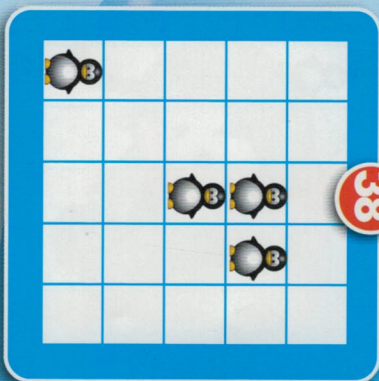
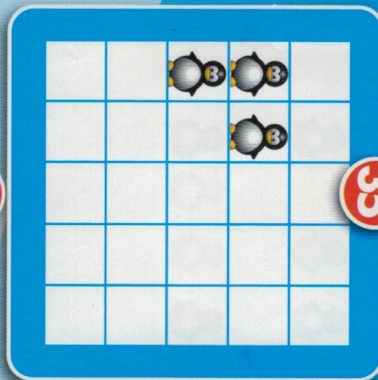
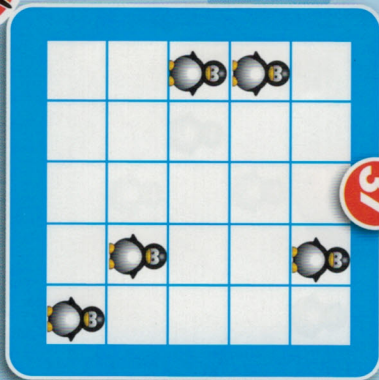

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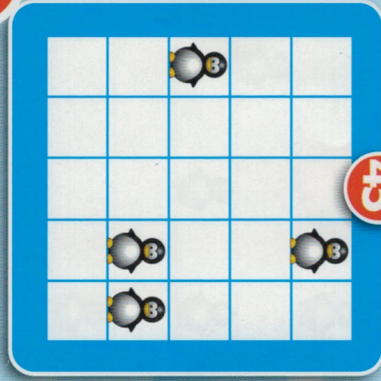


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EXPERT

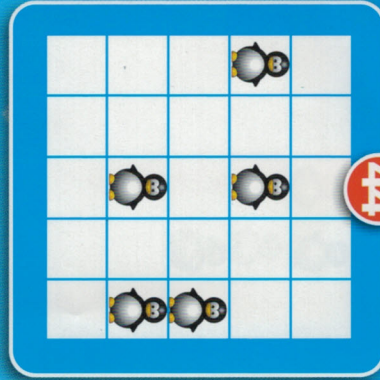




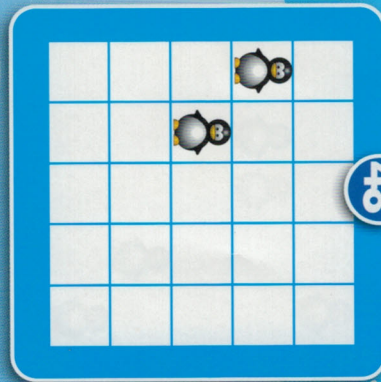
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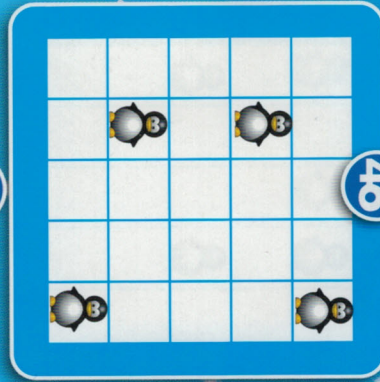
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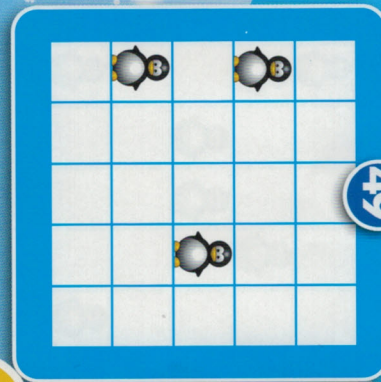
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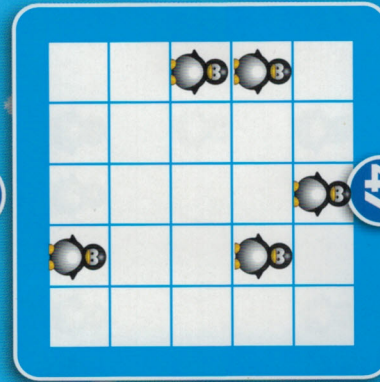
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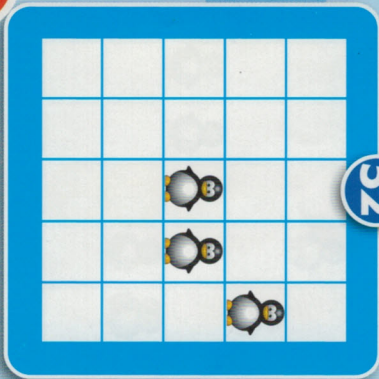
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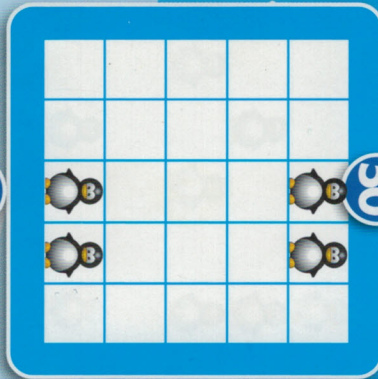




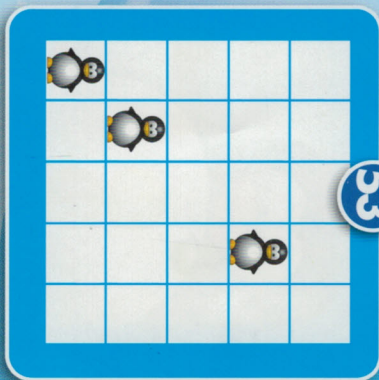
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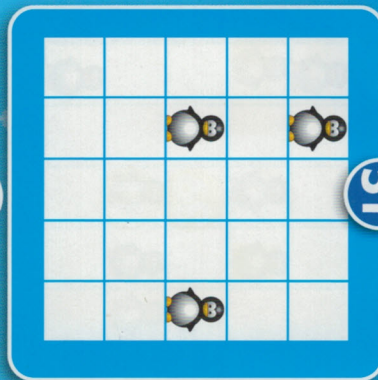
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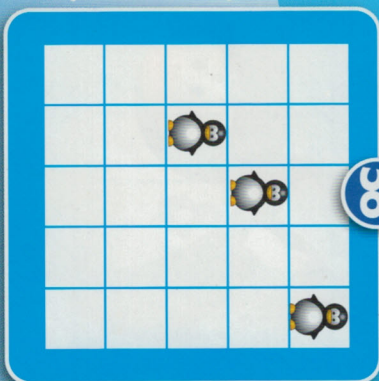
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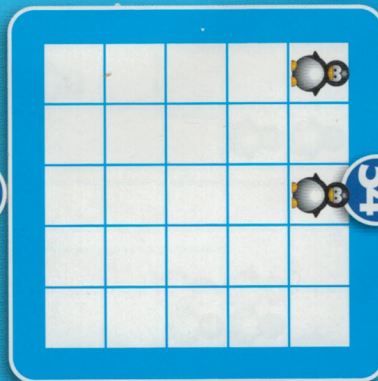
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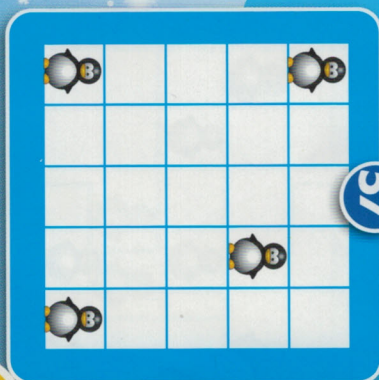
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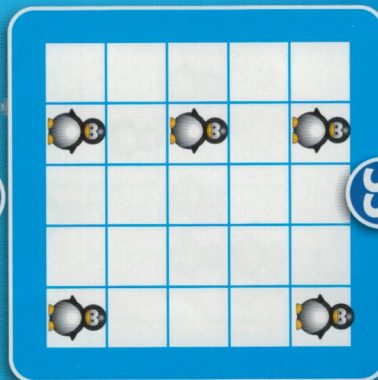
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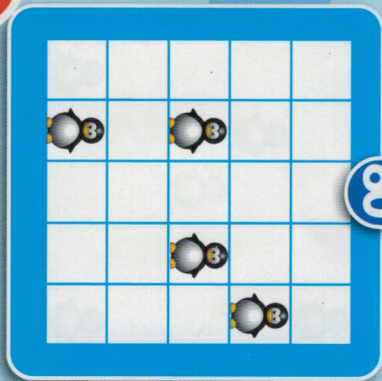


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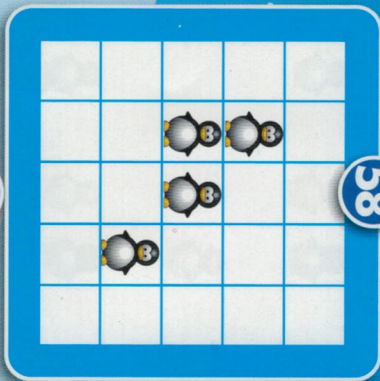




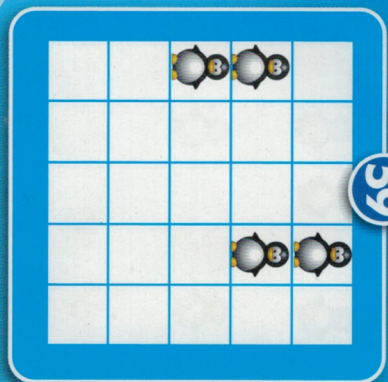
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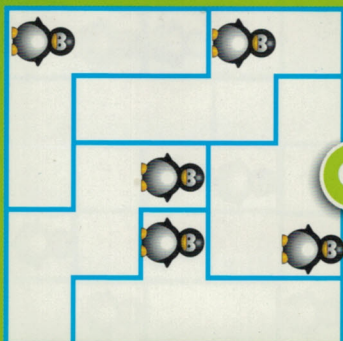
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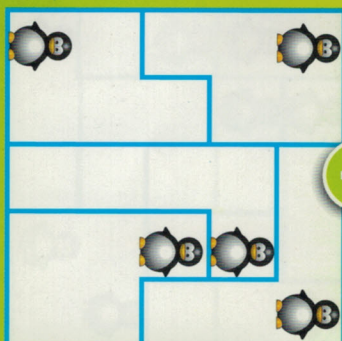
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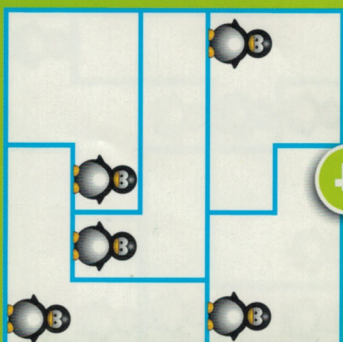
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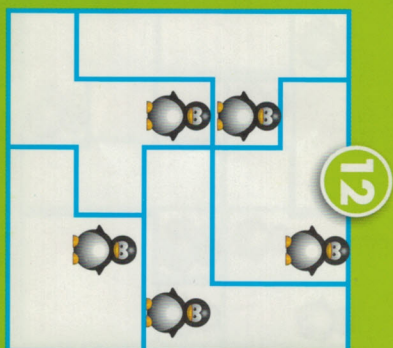
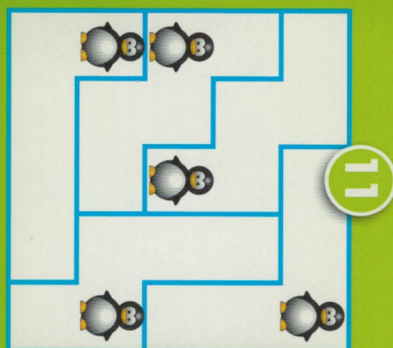
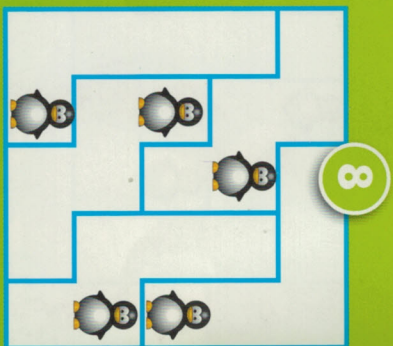
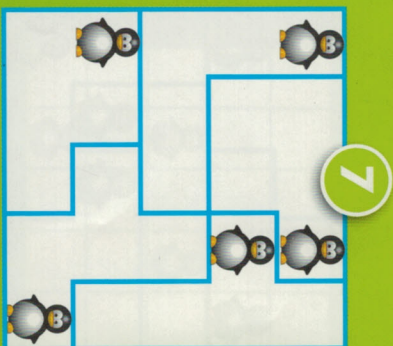
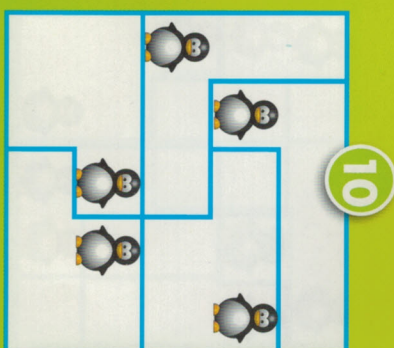
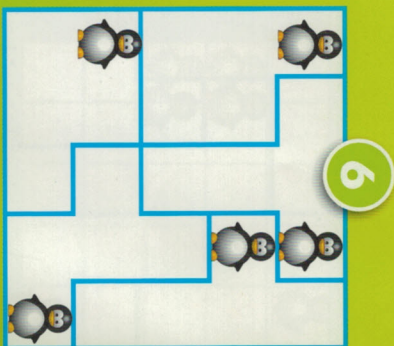
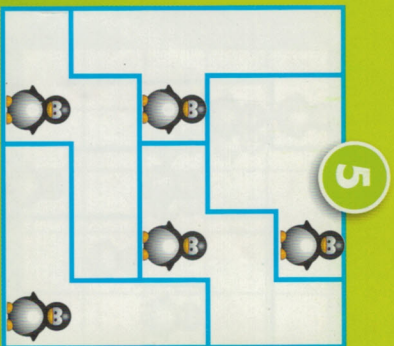


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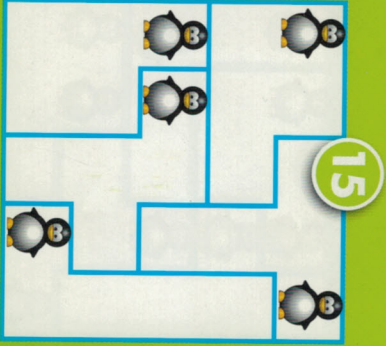
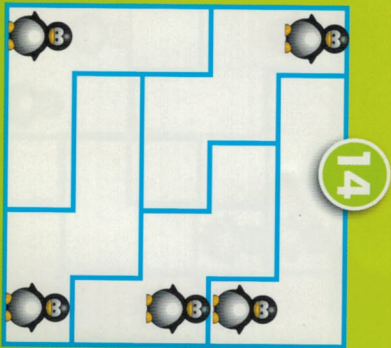
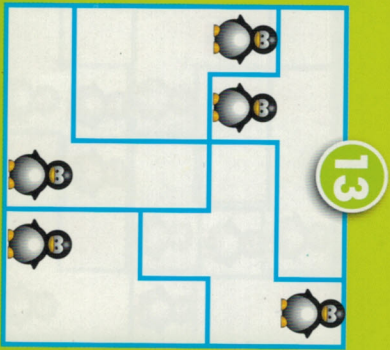


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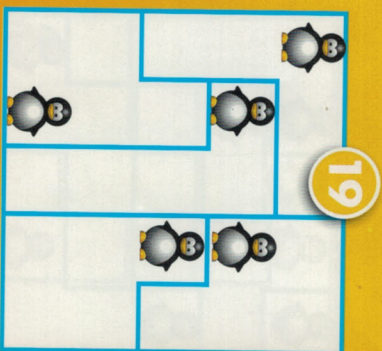
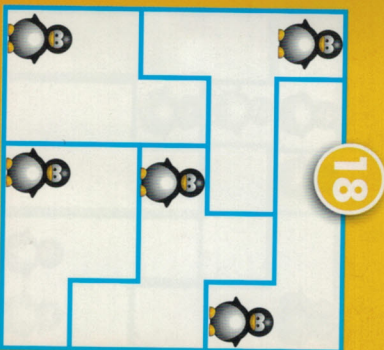
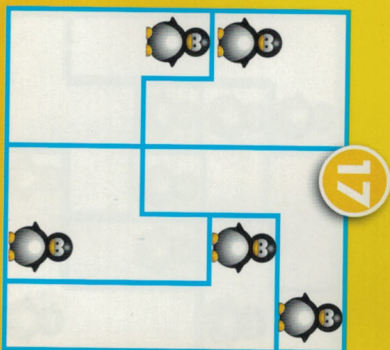
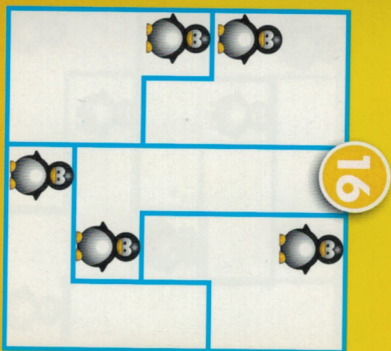






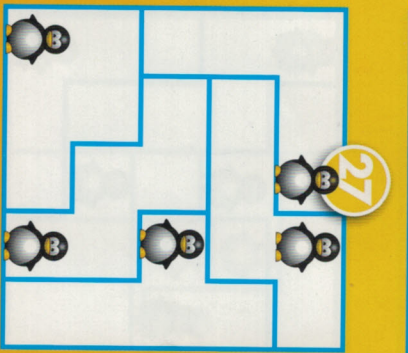
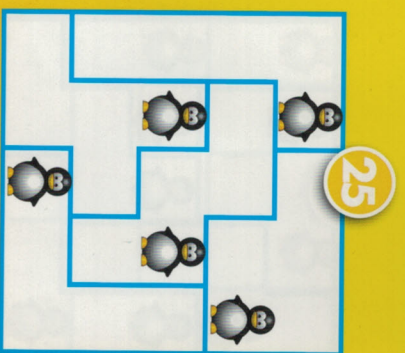
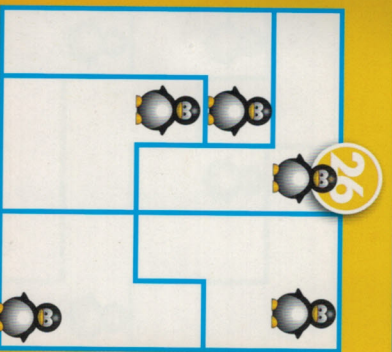
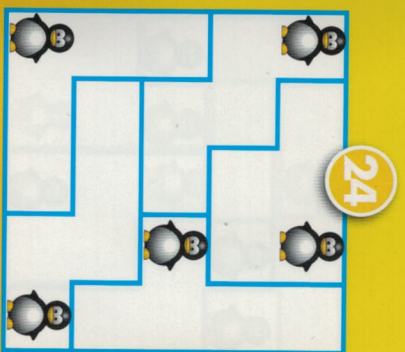
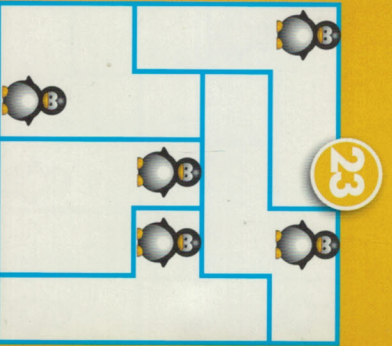
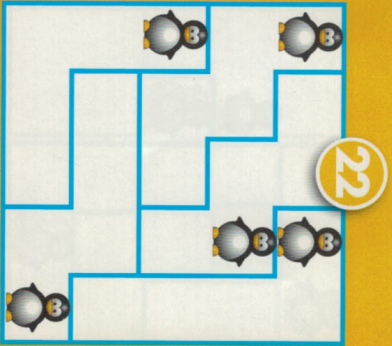
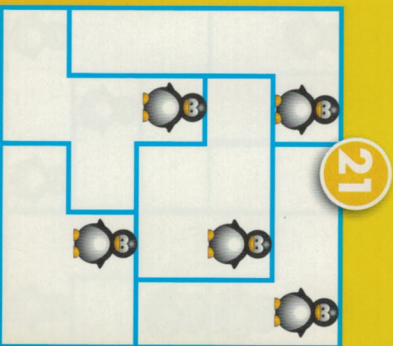
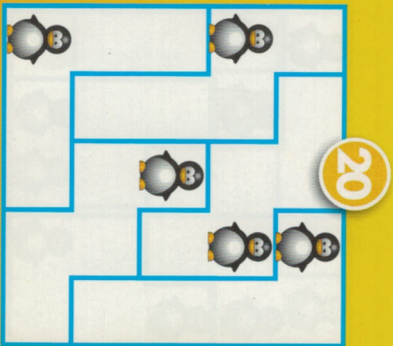


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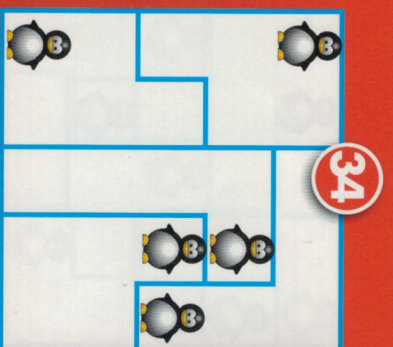
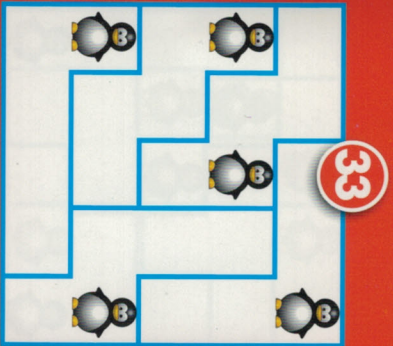
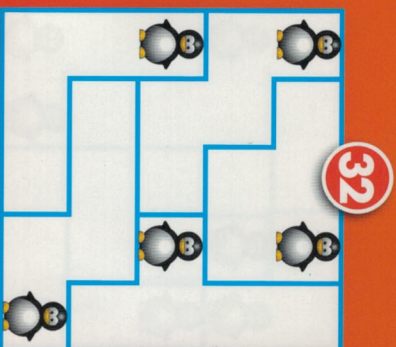
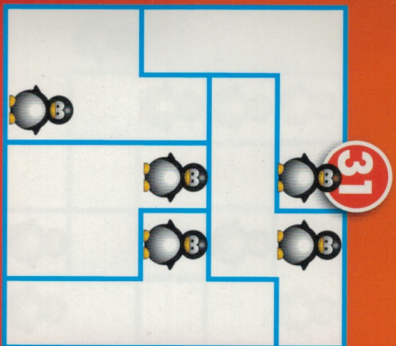
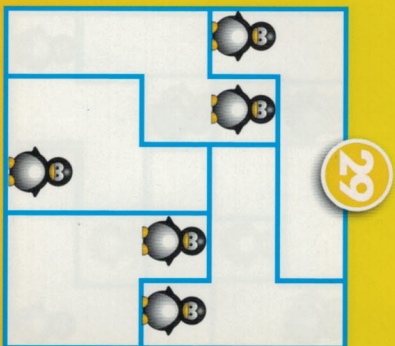
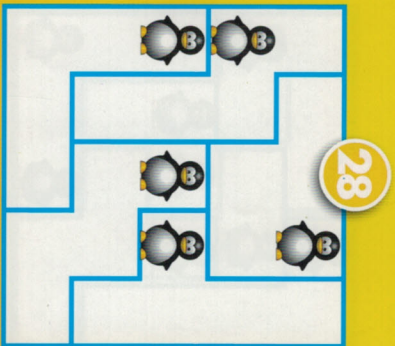


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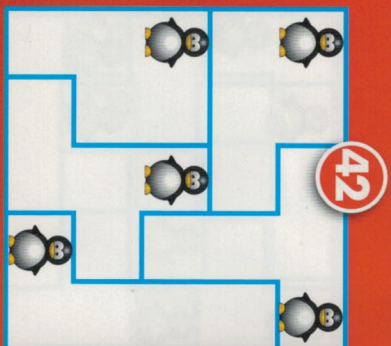
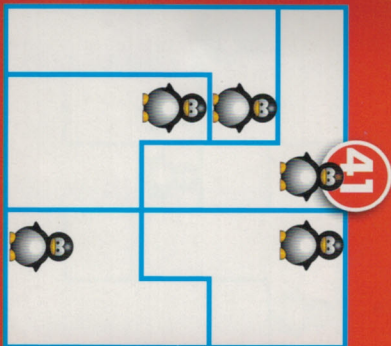
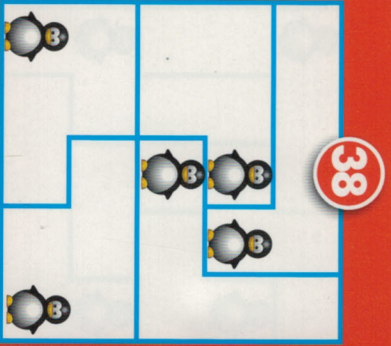
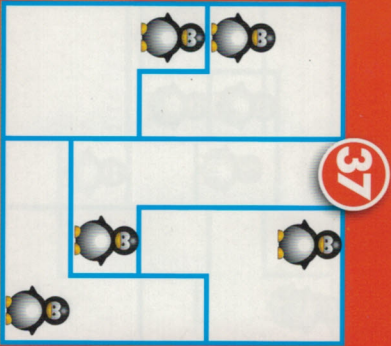
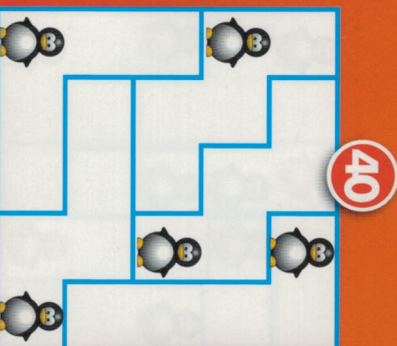
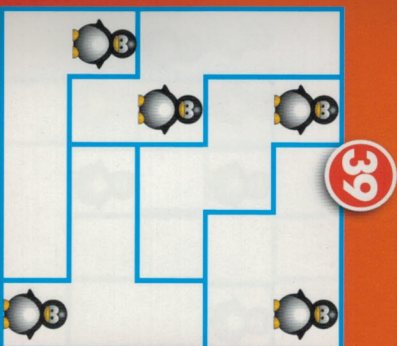
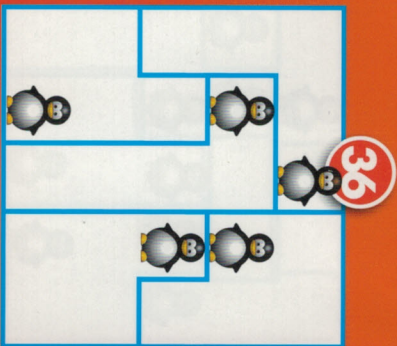
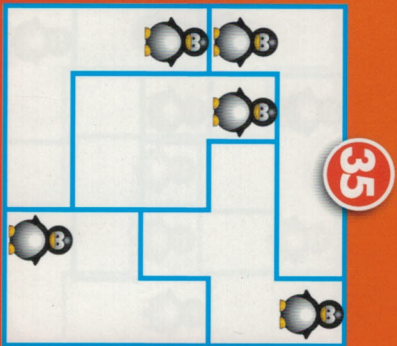




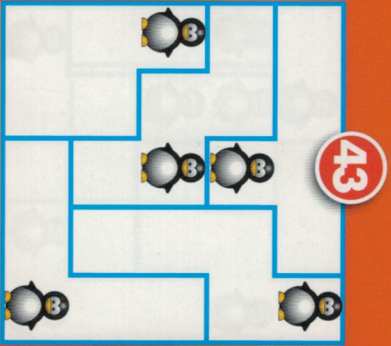




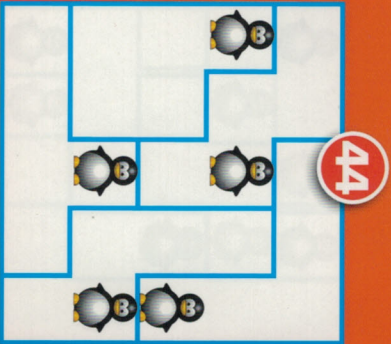




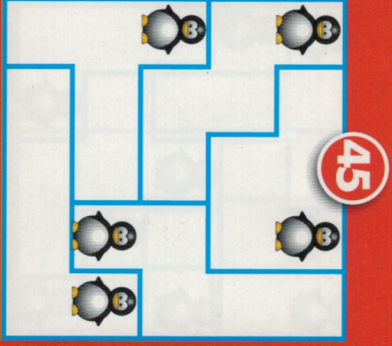




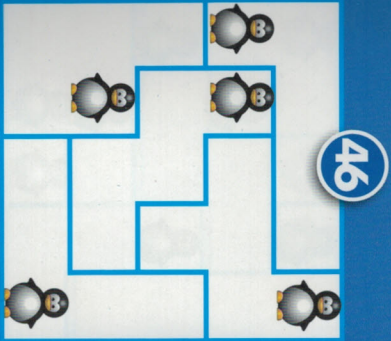
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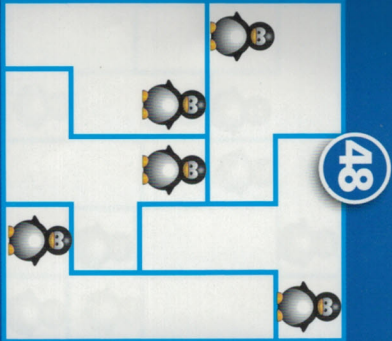
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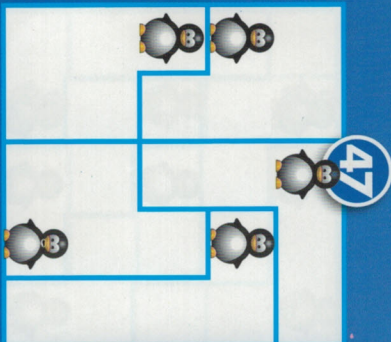
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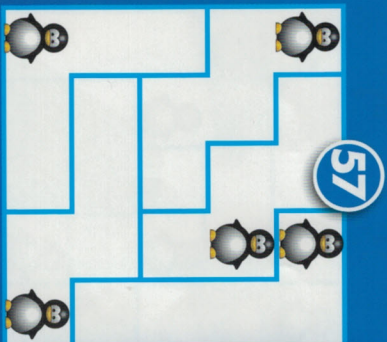
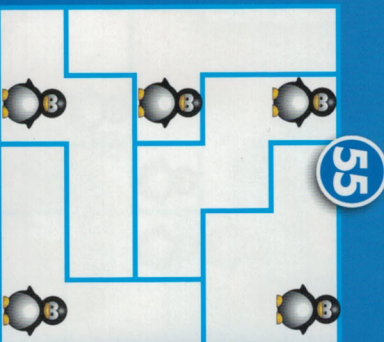
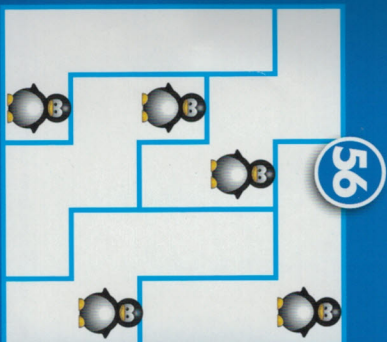
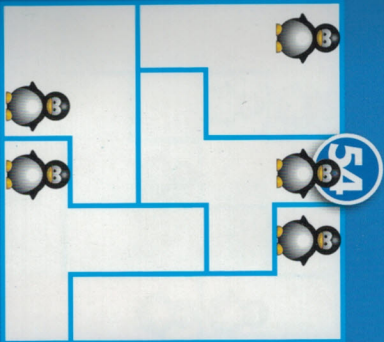
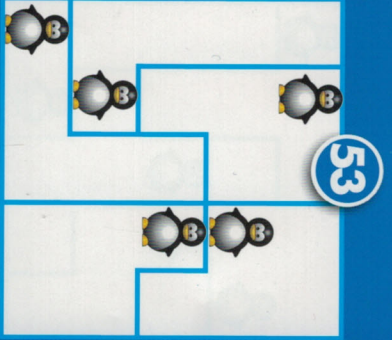
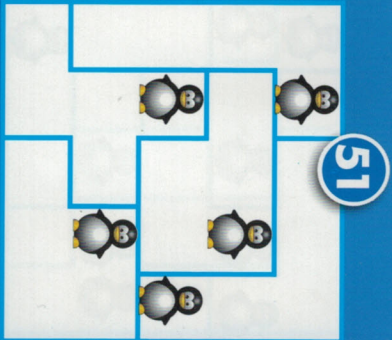
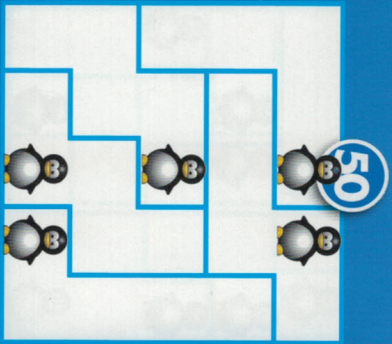


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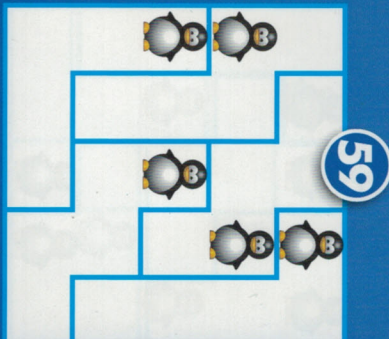
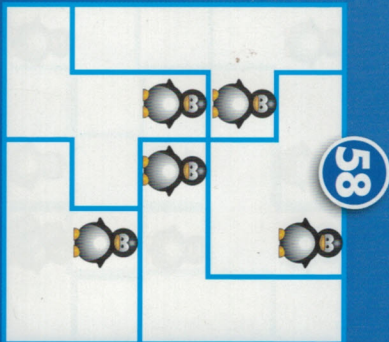


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