

# Magnet quiz No.1.

You will see diametrically magnetised rods arranged in different grid structures.

Diametrically magnetised rods attract/repel each other sidewise, not endwise.

See S-04-10-N for example:

<http://www.supermagnete.com/S-04-10-N>

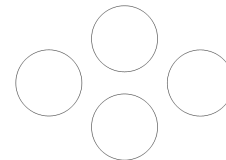
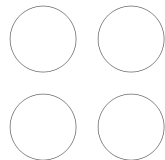
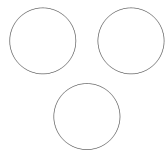


NEXT

Rods are placed in vertical holes drilled in a wooden base.

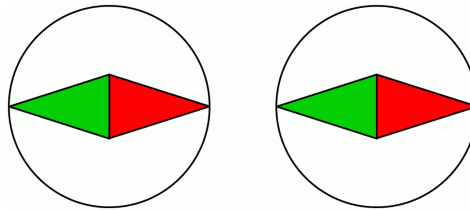
Each rod is allowed to rotate around its axis but not allowed to move horizontally or vertically.

Holes are arranged in a regular structure such as triangular, square or rhombic grid.



# Example

If two rods are placed next to each other, they will arrange as follows:



Note that  is considered as an equivalent form of .

Hereafter, equivalent arrangements are not differentiated.



# Rules of the quiz

You will get three exercises, four arrangements are given in each.

Only one of the arrangements is correct, the others are wrong. The aim is to find the correct one.

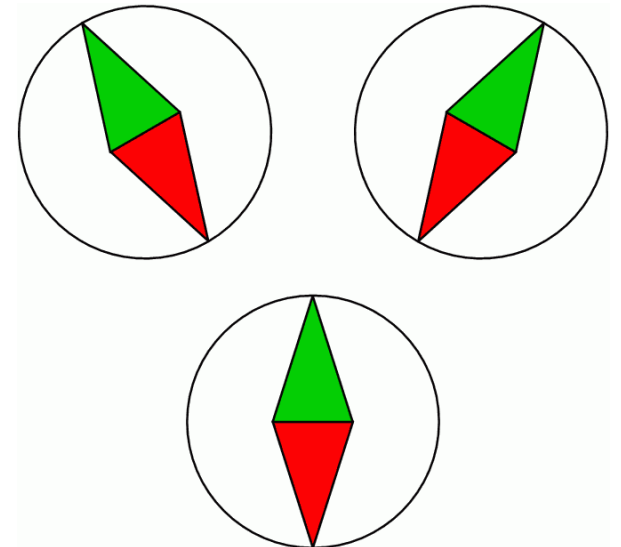
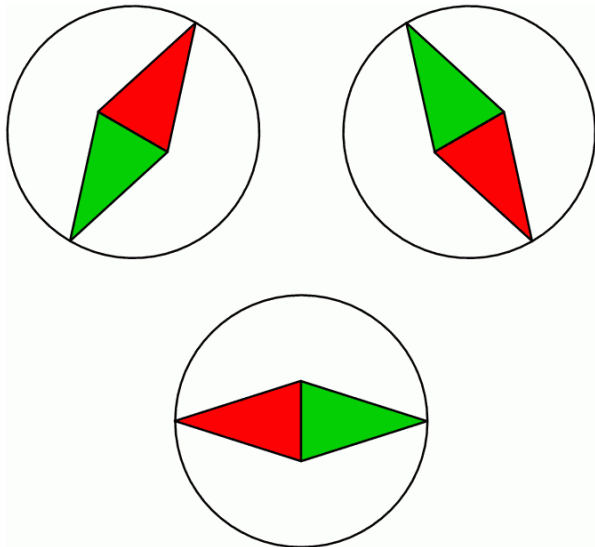
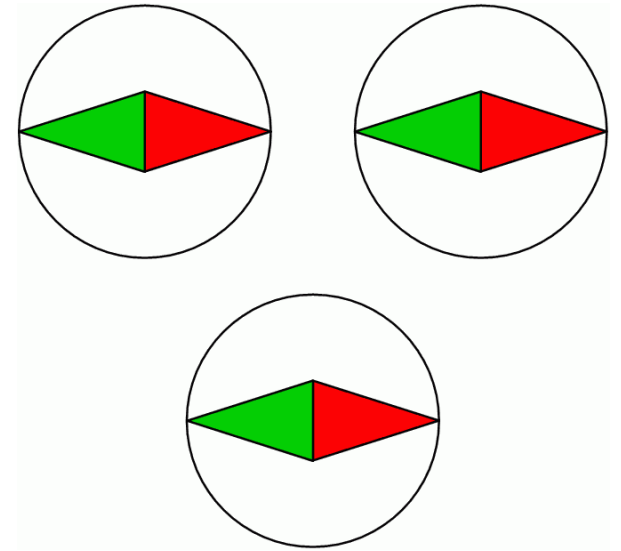
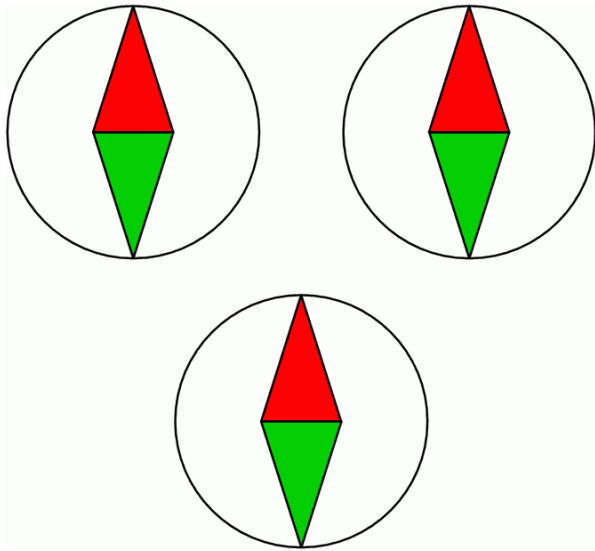
Please use only mouse and left click.

Do not use the keyboard and the mouse's scroll wheel.



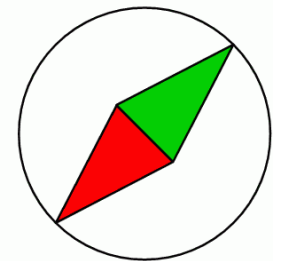
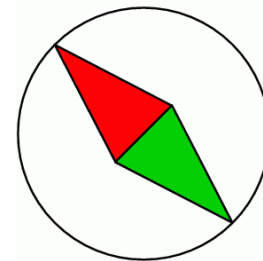
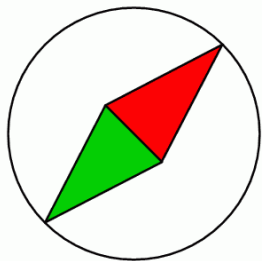
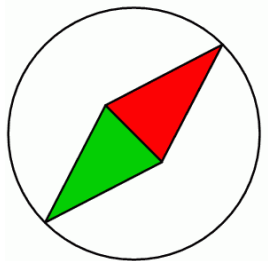
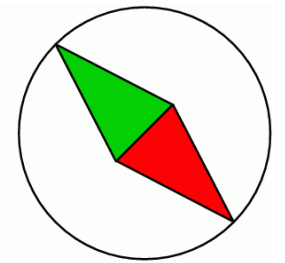
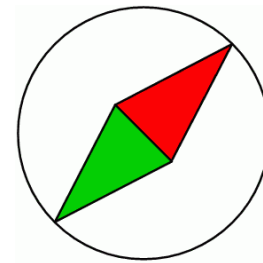
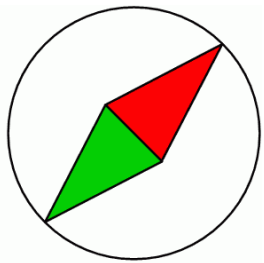
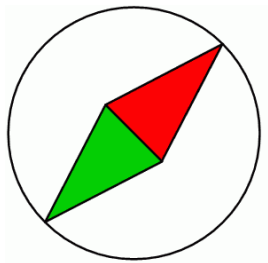
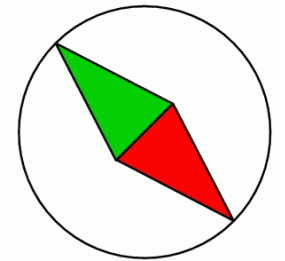
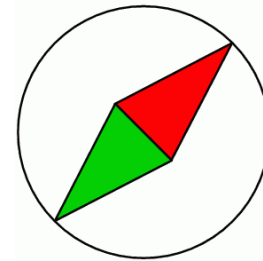
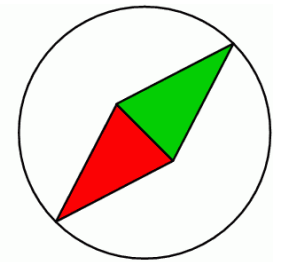
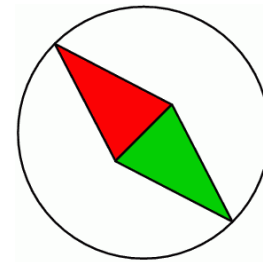
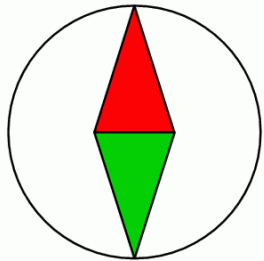
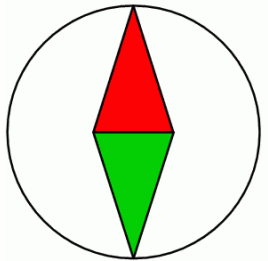
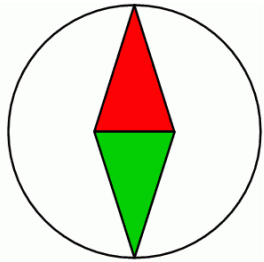
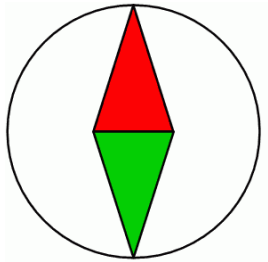
# Exercise 1

Click on the correct arrangement



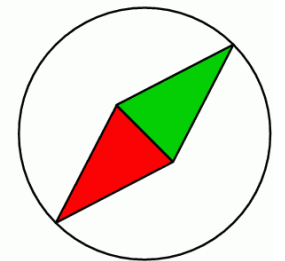
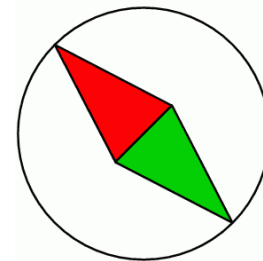
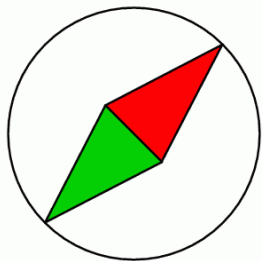
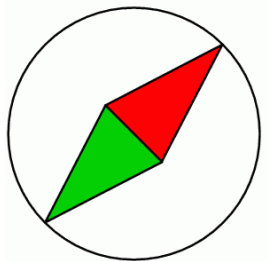
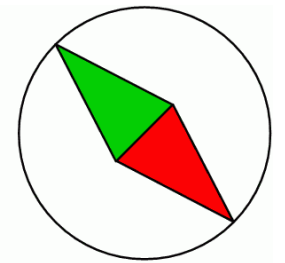
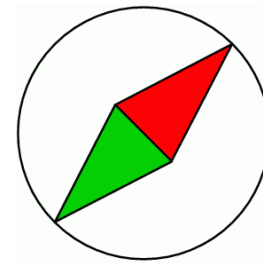
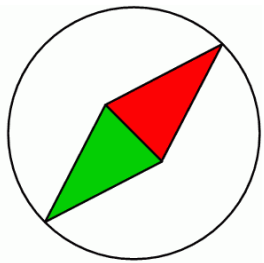
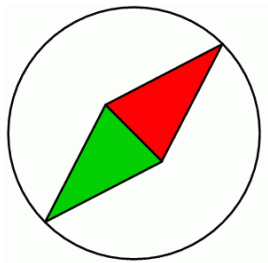
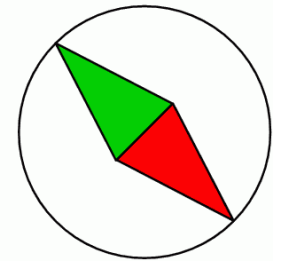
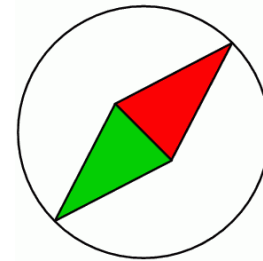
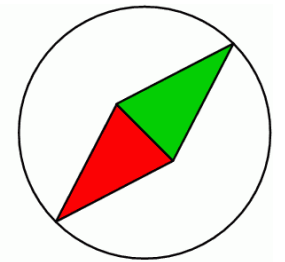
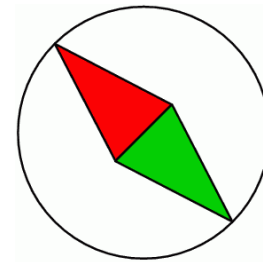
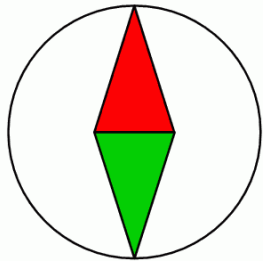
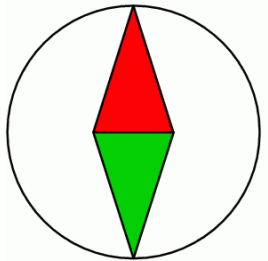
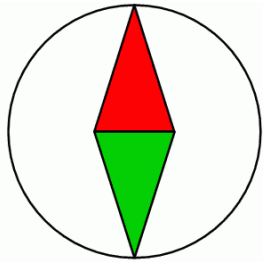
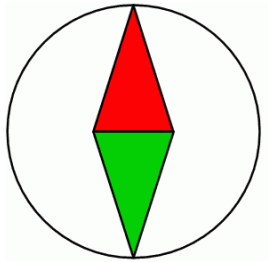
# Exercise 2

Click on the correct arrangement



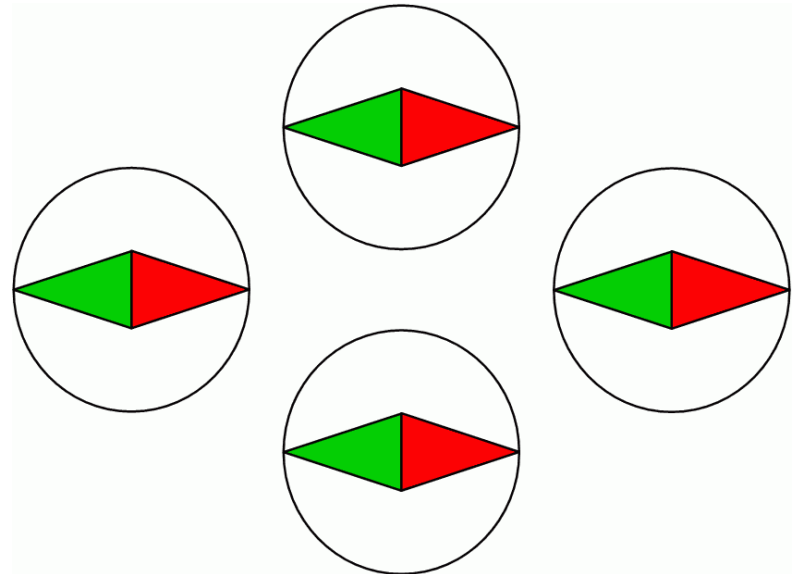
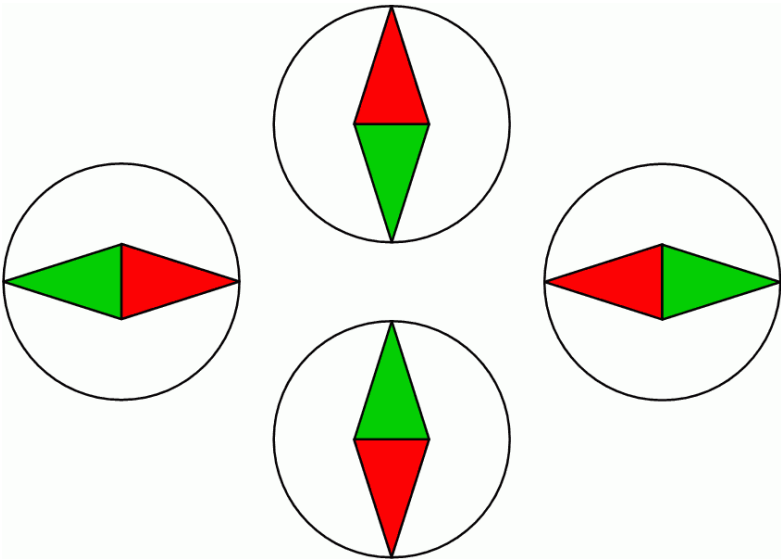
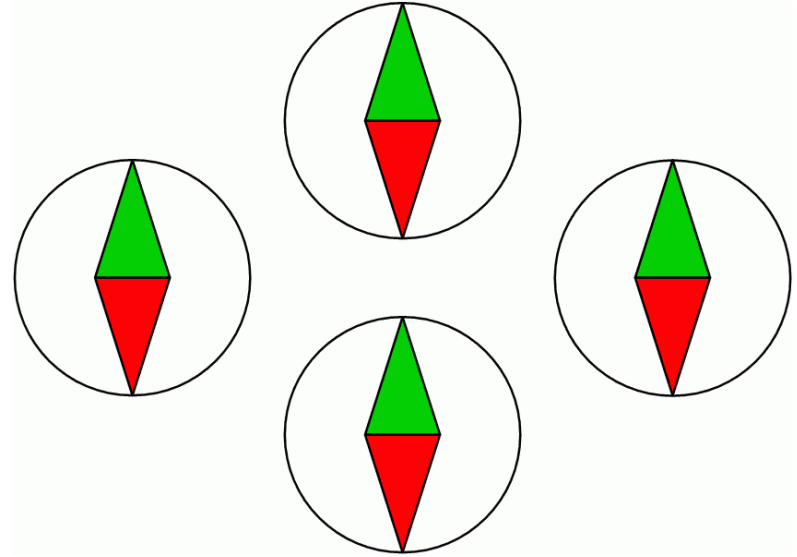
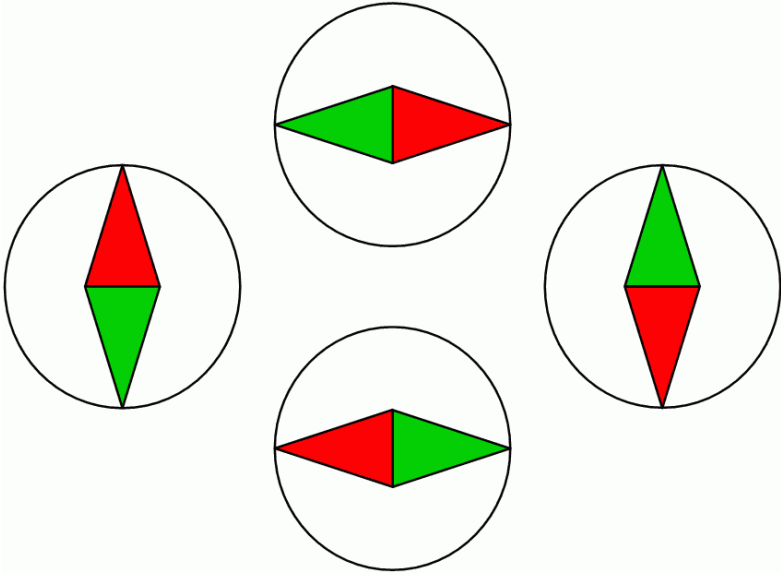
# Exercise 2

Click on the correct arrangement



# Exercise 3

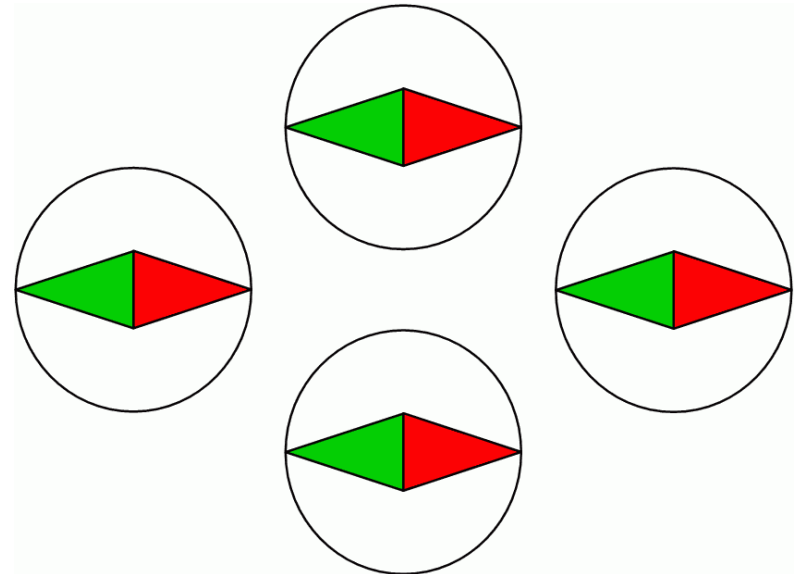
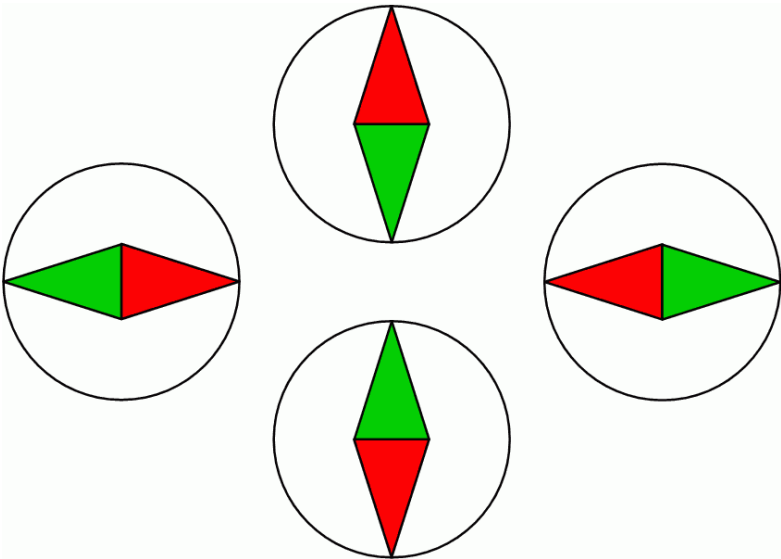
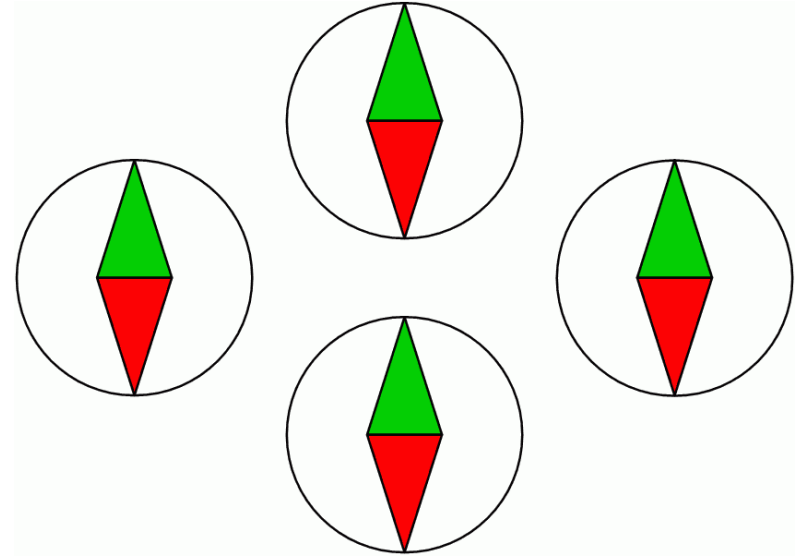
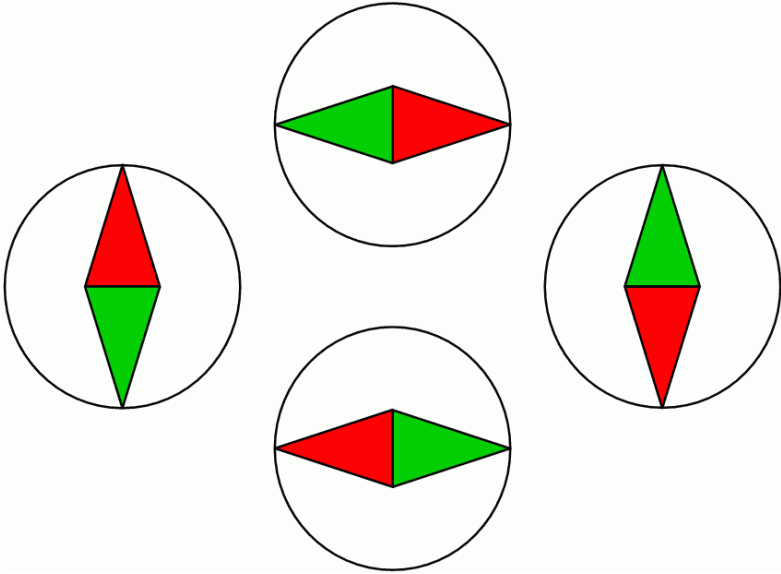
Click on the correct arrangement





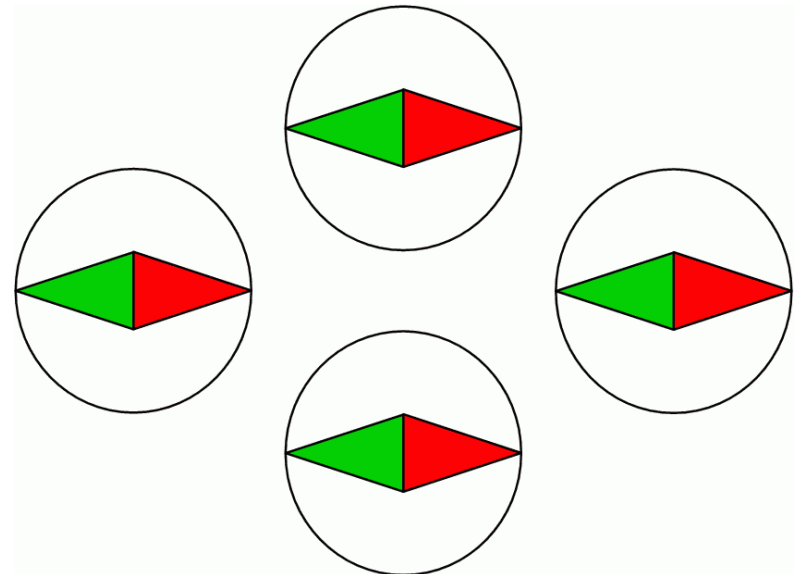
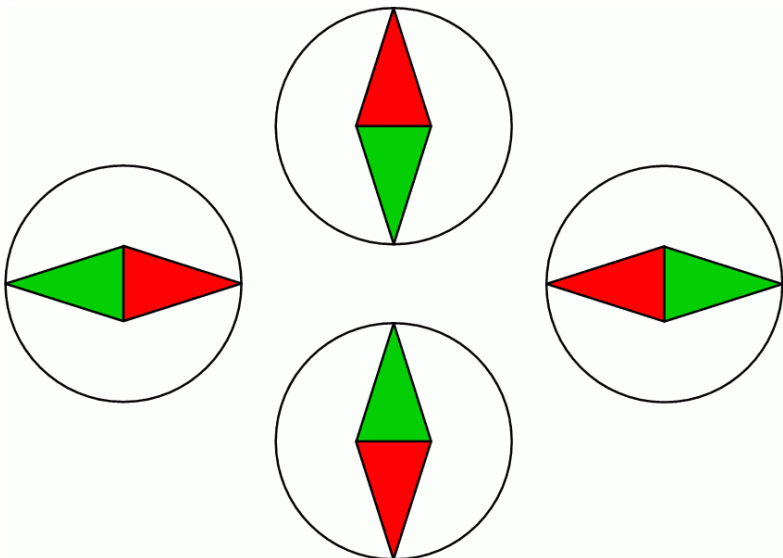
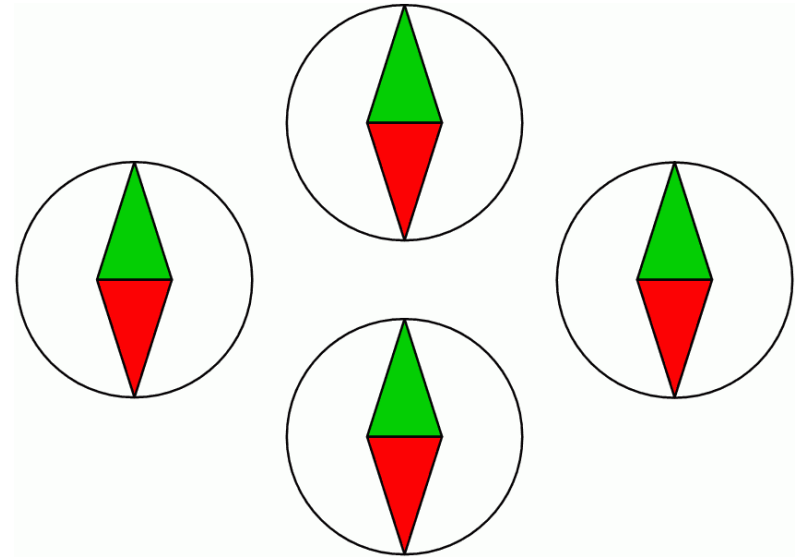
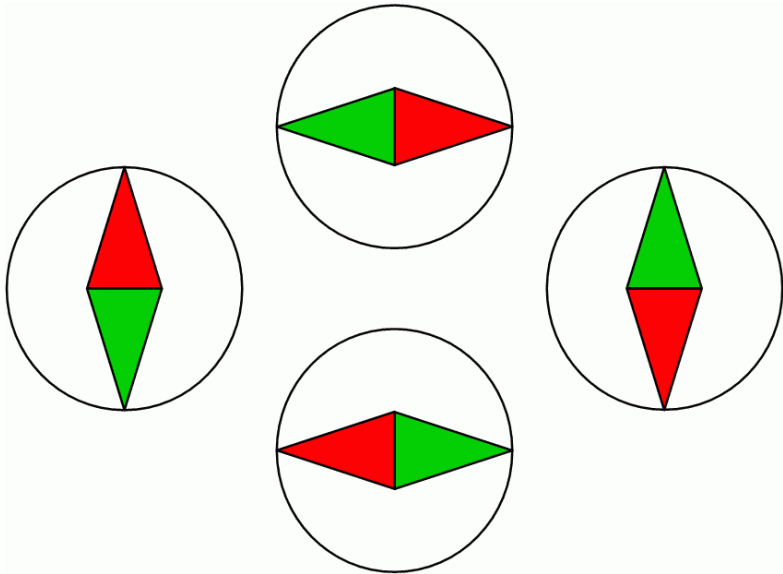
# Exercise 3

Click on the correct arrangement



# Exercise 3

Click on the correct arrangement



# Your results

All your answers were wrong (0%).

Click here to see the solutions  
and experimental proofs



NEXT

Click here to restart the quiz  
without seeing the solutions



BACK

# Your results

One of your answers was right (33.3%).

Click here to see the solutions  
and experimental proofs



NEXT



BACK

Click here to restart the quiz  
without seeing the solutions

# Your results

Two of your answers were right (66.7%).

Click here to see the solutions  
and experimental proofs



NEXT



BACK

Click here to restart the quiz  
without seeing the solutions

# Your results

Congratulations!

All your answers were right (100%).

Click here to see the solutions  
and experimental proofs

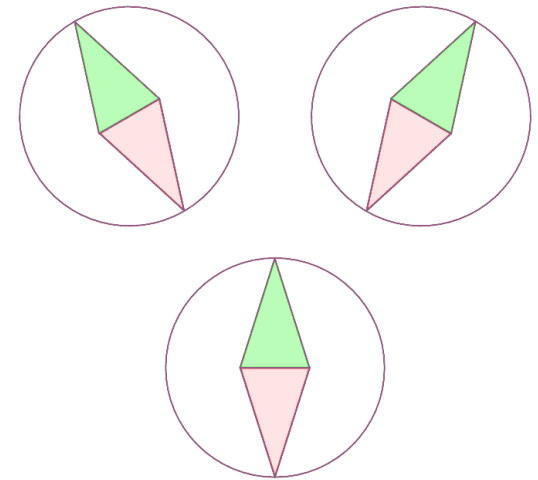
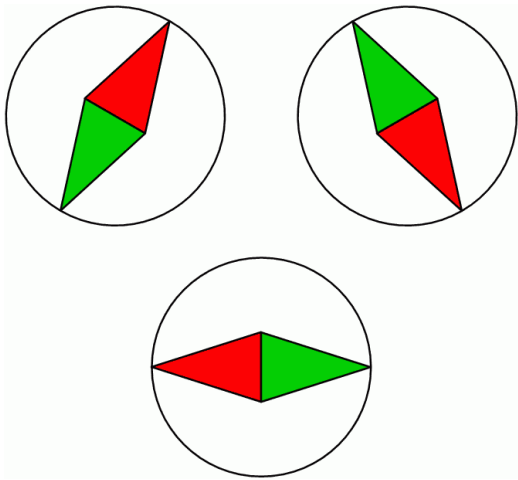
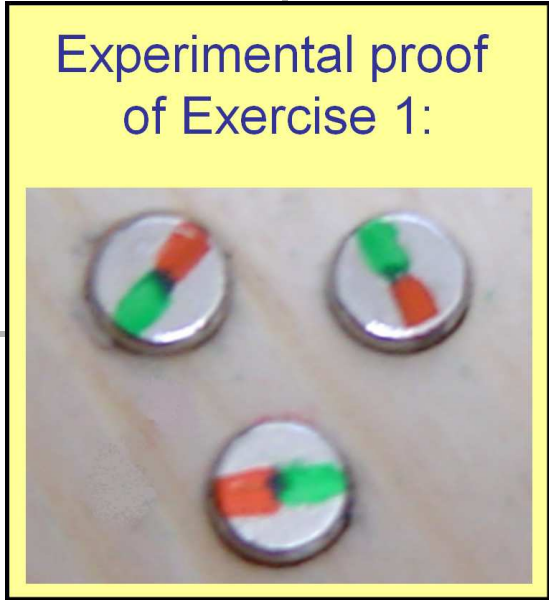
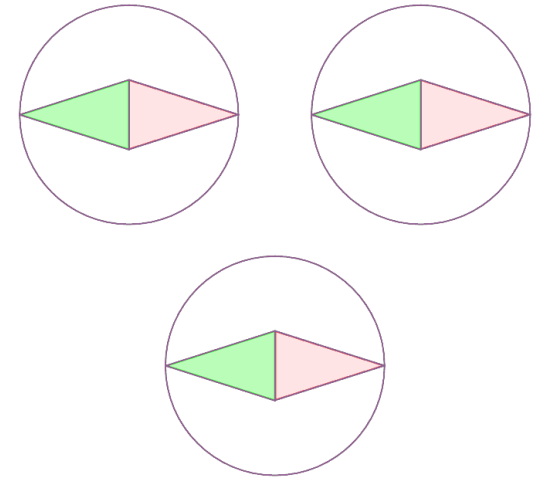
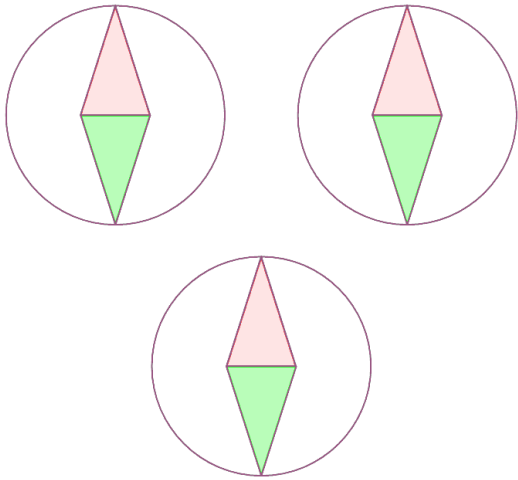


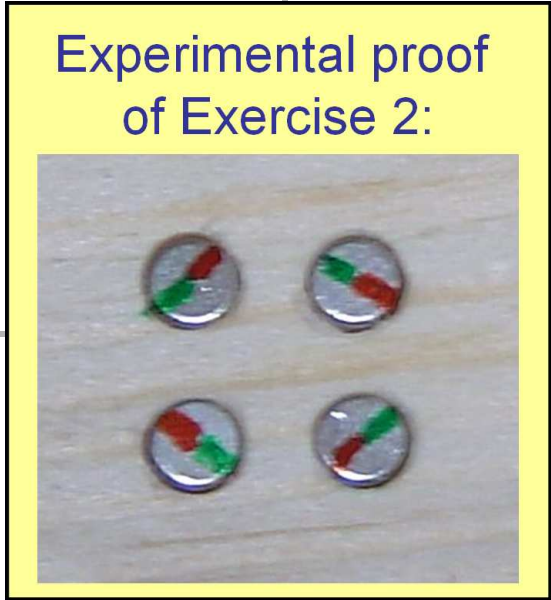
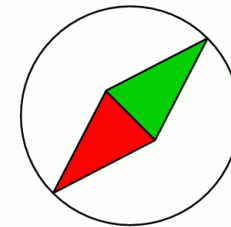
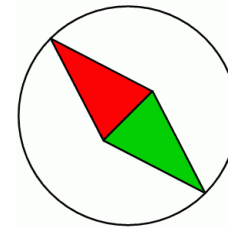
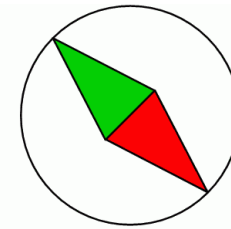
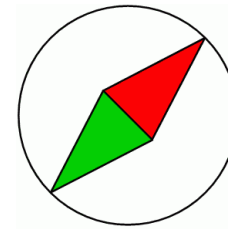
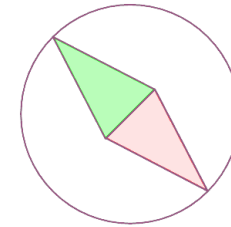
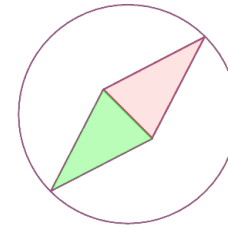
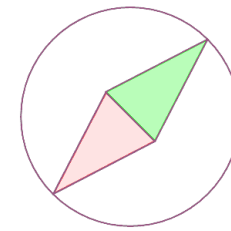
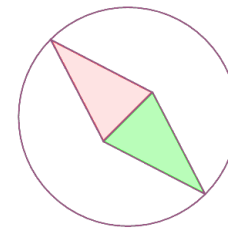
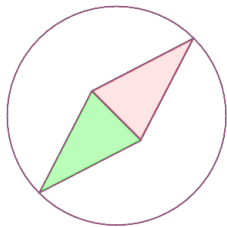
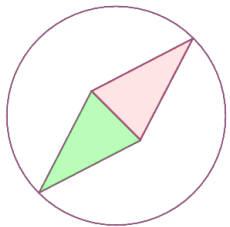
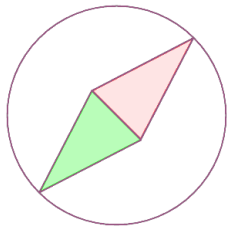
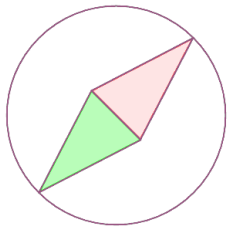
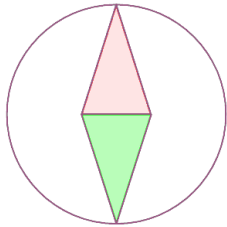
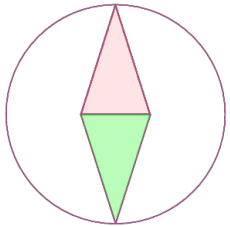
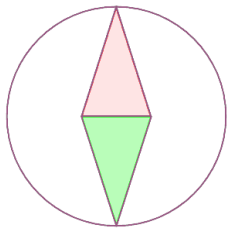
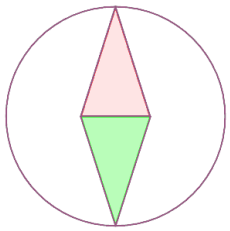
NEXT



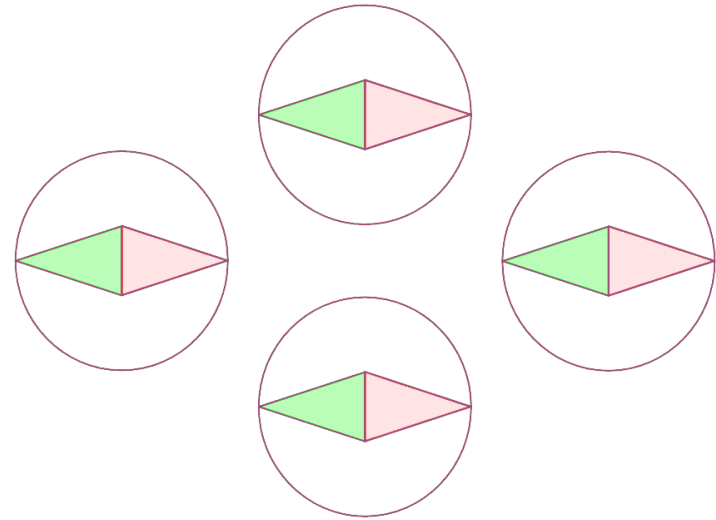
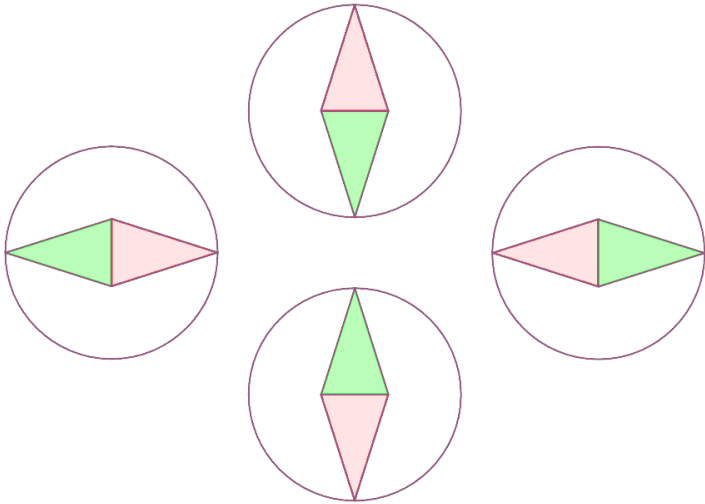
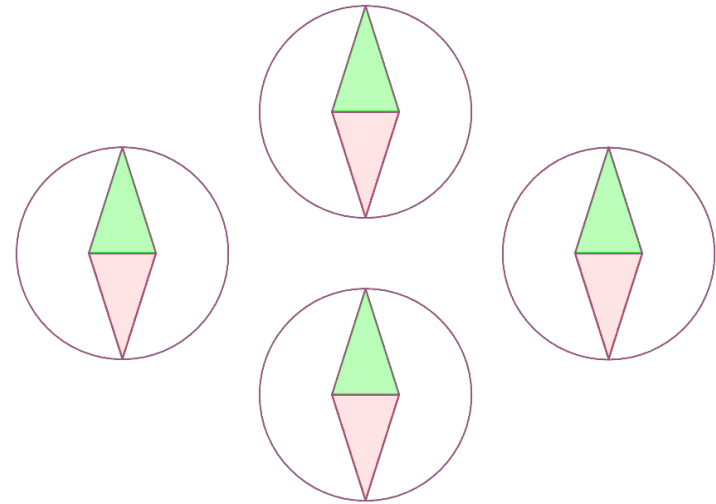
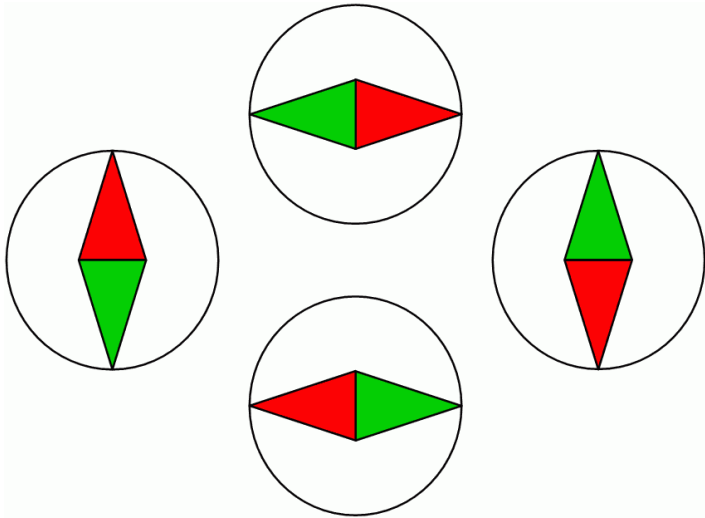
BACK

Click here to restart the quiz  
without seeing the solutions









As you can see below the distance between grid points can be longer or shorter. Shorter distance includes the case of touching rods, when wooden base with holes becomes unnecessary.



This is the end of Magnet Quiz No.1  
written by Sándor Bozóki, Hungary.

Click here to restart the quiz.

