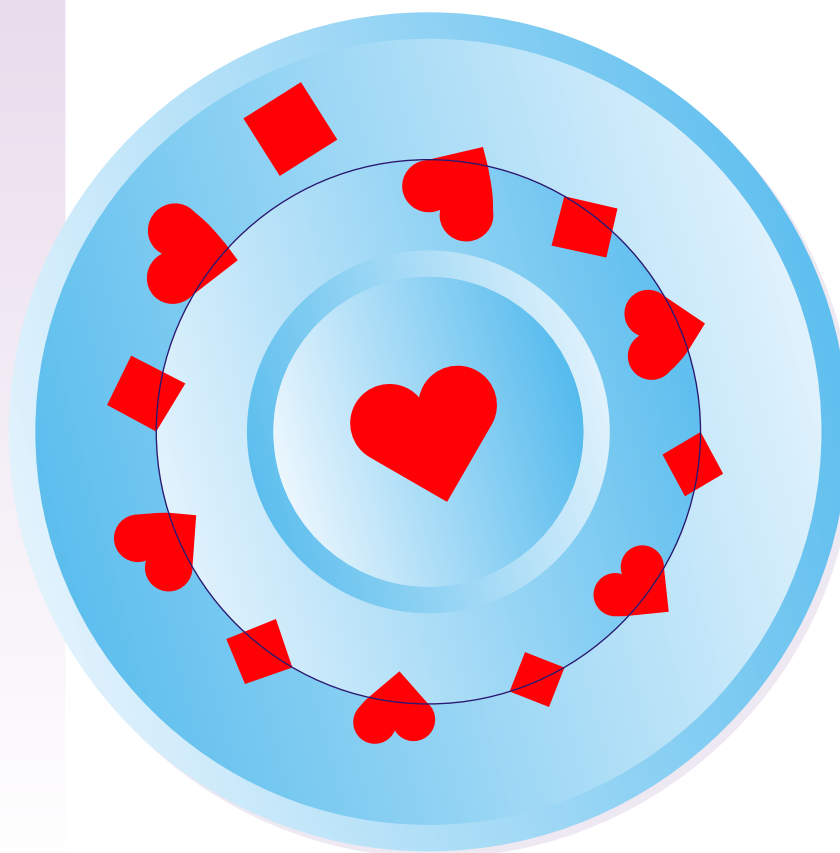


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Hearts & Diamonds

by Serhiy Grabarchuk

To demonstrate this puzzle trick first produce a simple device for it as shown in the diagram on the second page (page with the pieces).

After you've got the required device place the rotatable disc (the middle one) into position to create the pattern shown above. Count how many hearts (counting one in the center) and diamonds decorate the plate. There are more hearts than diamonds. Now rotate the middle disc slightly counterclockwise to make the hearts and diamonds images coincide again. Count the hearts and the diamonds now and you will see that their numbers are equal. One additional diamond appeared! Tricky? What do you think how this happened?

September 1, 2003

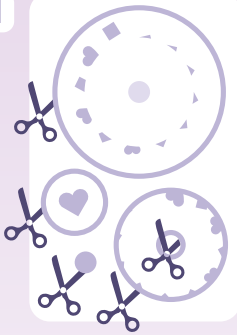
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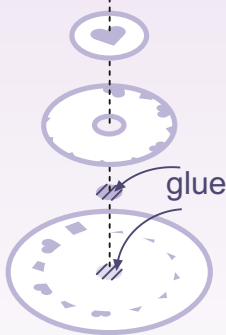
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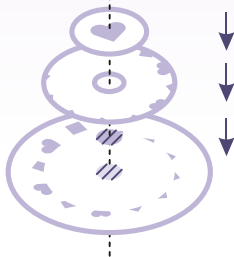
1



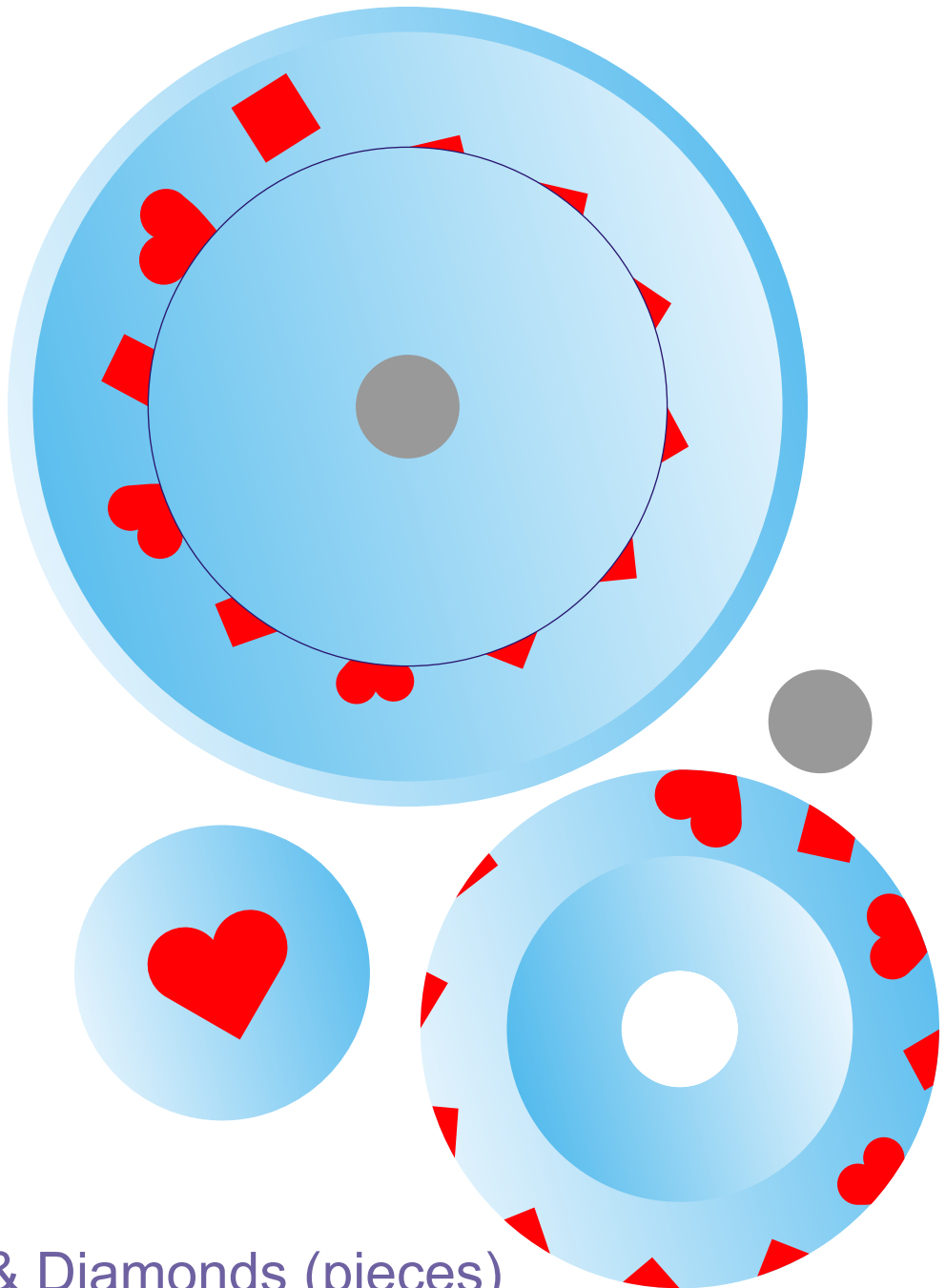
2



3



F



Hearts & Diamonds (pieces)

To produce the puzzle device first print the pieces out. Then follow the diagram shown in the left column above - from step 1 to step F (finish).

September 1, 2003

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