

## 1. Decrypt a text using a transposition cipher.

Transposition belongs to the basic methods of encryption. Its principle is changing the position of a character in text. An example of transposition cipher is so-called Fleissner grille that you can see in the picture below. This encryption system, invented in the 16<sup>th</sup> century, was described by Jules Verne in his novel Mathias Sandorf.

The following message has been encrypted using a simple transposition cipher. In order to decrypt it we need to prepare a decryption grille. The decryption is made by correct movements of the grille and gradual reading of characters that can be seen through its windows.

Write the ciphertext to the empty grid (below) – left to right and top to bottom. Set the decryption grille. Read and note the visible characters; then rotate the grille by 90° and repeat the procedure (three times). Correct results can be obtained only if the initial placement of the grille and the direction of its rotation are also correct.

**Attention!** Note that the grille can be rotated clockwise or counterclockwise, and you do not know its initial position.

WRNSA	ERIUM	ASMYR	DIEUL	DIAXB	XRYRT	IHXGX	RXNEX	GGEXW	IXOLR	LRXME
XLSXW	DEXA									


## Decryption grille

Cut the transposition grille out and make windows in it by removing the black squares.

