Here is an encrypted message:

2	4	0	1
t	m	а	е
е	f	r	0
i	t	u	r

key: 32²

To decode the message,

- 1 Evaluate the key: $32^2 = 32 \times 32 = 1024$
- Notice that the digits at the top of the code are 1, 0, 2, 4 but in a different order.
- Put these digits in the correct order (1024), along with the columns of letters below them:
- 4 Read the message: 'eat more fruit'.

1

Decode this message:

9	1	6	3
0	d	n	0
а	t	W	S
W	I	0	
S	p	p	i

key: 37²

2

Here is a message before encryption

1	0	2	4
r	i	d	е
а	b	i	k
е	t	0	W
0	r	k	

key 32²

Write the message in its encrypted form in this grid.

2	4	0	1

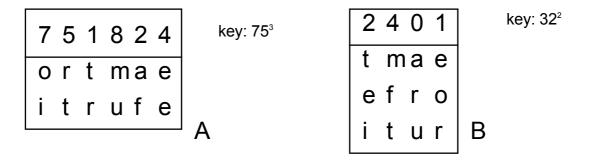
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Why would an encryption based upon a key of 38 ² not be a good idea?	

4

If you do not know the key to the code, you can try to decipher the message by simply trying to rearrange the columns of letters until a message appears.

Here are two different ways the message 'eat more fruit' could be encrypted:



Which of these two encryptions would be easier to decipher by just rearranging the columns until a message appeared?

A / B

Give a rea	son for your a	answer.		