

Modular Arithmetic and Encryption

The Caesar Shift Cipher:

This code has been set using the public key (mod 26) and a private key (the shift). Can you decipher it?

WKLV FRGH ZDV LQYHQWHG EB MXOLXV FDHVDW

EXCEL

Jan 18-10:00

Decoding additive shift ciphers is not too hard without the private key. However, a multiplicative shift cipher is much more difficult.

The coded message:

VJZH

has a public key of mod 26 and a multiplicative private key. Try to decode it.

Why is it so much more difficult to crack this code than with an additive shift?

EXCEL

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Create you own coded message/word and swap it along with the private key.

Jan 18-10:26