CPR 101

Activity - Encryption

**Part 1:**

Decode this quote:

W dvgbyrqsvldqeqwrgqwrdkqmm, eyrcrowr lv gwrdkhvsgqwrxcdxevpclj. - QgvBkcicnm

It's fairly simple to do: All instances of each letter in the quote above can be replaced with another letter. To keep it simple, capital letters are encoded to the same letter as their lowercase version.

You can use this table as a work space:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| a = | b = | c = | d = | e = | f = | g = |
| h = | I = | J = | k = | l = | m = | n = |
| o = | p = | q = | r = | s = | t = | u = |
| v = | w = | x = | y = | z = |  |  |

Unencoded quote: - Not easy to decode, unless a complete table of decoded characters is given.

**Part 2:**

Decode this quote:

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

With this quote, there is no letter substitution. Letters have been separated but some number of characters. So if you were to count every ***7*** character, you would have a quote. But what's the number? As a note, spaces have been removed.

What's the quote?

**T**nnotmo**h**dtsaes**e**shenre**r**oewdaw**e**fwhblh**a**pooiso**r**erun,d**e**olnaao**1**pddrnn**0**l:eyd'**k**etrntt**i**ihsuh.

T**n**notmoh**d**tsaese**s**henrer**o**ewdawe**f**whblha**p**ooisor**e**run,de**o**lnaao1**p**ddrnn0**l**:eyd'k**e**trntti**i**hsuh.

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

Tnnotmohdtsaeseshenreroewdawefwhblhapooisorerun,deolnaao1pddrnn0l:eyd'ketrnttiihsuh.

Thereare10kindsofpeopleintheworld:thosewhounderstandbinarynumerals,andthosewhodon’t.

Answer: There are 10 kinds of people in the world: those who understand binary numerals, and those who don’t.

**Part 3:**

Decode this quote:

Lbbo,icsbnAzcubsebnxbizbqixbuwyiznxienxqt.ezwyzbbmin-mjtmcxgbzlQjunzbmomcbiOWlcgbbzacb.i

This is much more difficult. Not only are the characters separated as with Part 2 above, they have also all been substituted for other characters. Spaces have been removed. See if you can figure out the quote.

All instances of each letter in the quote above can be replaced with another letter. To keep it simple, capital letters are encoded to the same letter as their lowercase version.

You can use this table as a work space:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| a = | b = | c = | d = | e = | f = | g = |
| h = | I = | J = | k = | l = | m = | n = |
| o = | p = | q = | r = | s = | t = | u = |
| v = | w = | x = | y = | z = |  |  |

Unencoded quote: This quote is absolutely not possible to solve, unless a complete table is given. This one involves both substitutions and transpositions algorithm methods. Overall, without an encryption algorithm table, ciphertext can’t be decoded unless the creator provides the table to the user.