Factoring Example

Consider the following ciphertext:

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SIJYU MNVCA ISPJL RBZEY QWYEU LWMGW ICJCI MTZEI MIBKN
QWBRI VWYIG BWNBQ QCGQH IWJKA GEGXN IDMRU VEZYG QIGVN
CTGYO BPDBL VCGXG BKZZG IVXCU NTZAO BWFEQ QLFCO MTYZT
CCBYQ OPDKA GDGIG VPWMR QIIEW ICGXG BLGQQ VBGRS MYJJY
QVFWY RWNFL GXNFW MCJKX IDDRU OPJQQ ZRHCN VWDYQ RDGDG
BXDBN PXFPU YXNFG MPJEL SANCD SEZZG IBEYU KDHCA MBJJF
KILCJ MFDZT CTJRD MIYZQ ACJRR SBGZN QYAHQ VEDCQ LXNCL
LVVCS QWBII IVJRN WNBRI VPJEL TAGDN IRGQP ATYEW CBYZT
EVGQU VPYHL LRZNQ XINBA IKWJQ RDZYF KWFZL GWFJQ QWJYQ
IBWRX
```

The principal repititions of three or more letters have been underlined in the message and the factors (up to 20 only) of the intervals between them are as follows:

Fragment	Distance	Factors
CGXGB	60	2,3,4,5,6,10,12,15,20
PJEL	95	5,19
BRI	285	3,5,15,19
QRD	165	3,5,15
QWB	275	5,11
WIC	130	2,5,10,13
XNF	45	3,5,9,15
YZT	225	3,5,15
ZGI	145	5

The factor 5 is common to all of these repititions, and there seems to be every indication that five alphabets are involved. Certainly, this is not a proof that five alphabets were used — it is only a working hypothesis.