



Young Tyros Newsletter

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GGMA

ZANAC

*COPST – ENDEAVOUR

Is the SO A-25 Single Letter a “Gimme”? *

Contribution of Personal Solving Technique

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ENDEAVOUR

The Consonant Line Method solving analysis takes the simple frequency count survey one step further. Its objective is to isolate those ciphertext letters most likely to represent plaintext vowels. Instead of counting the frequency of each letter, the method is based on counting how many different letters each ciphertext letter touches. Ciphertext letters with the highest variety of contacts become candidates for vowels, lowest contacts are likely consonants. Ciphertext letters missing from any contact activity will most likely be consonants. The Consonant Line Method is covered in Helen Fouche Gaines’ book “Cryptanalysis.”

Cryptology Web Site

ZANAC

Check out [Cryptopop’s Hints](http://www.freewebs.com/gidusko/cryptopop), <http://www.freewebs.com/gidusko/cryptopop> for an abridged summary of all data pertinent to solving simple substitution cryptograms, a great learning or refresher tool.

Free Code and Cipher Books

Publications in our Young Tyro Library, available to new Young Tyro members, free of charge. Send LIONEL, name, address, age and three Nom choices of the new member. You may select a book, or we will pick one suitable for age. Members under twelve years of age will receive the bimonthly Junior Newsletter edition with cipher solving prize opportunities; twelve years and older will receive this Newsletter and its referenced constructions, upon request.

Alvin’s Secret Codes – Hicks

Codes and Ciphers - Callery

Codes and Secret Writing – Zim

Cryptanalysis – Helen Gaines

Crypto & Spygrams – Gleason

Codes, Secret Writing – Gardner

Cryptography – Dwight Smith

Find Out About Secret Codes – Beal

Fun with Secret Writing - Lamb

Invitation to Cryptograms –Williams

Mad Scientists Club – Brinley

Mathemagic – Heath

Mental Magic – Martin Gardner

Mysterious Messages – Blackwood

Perplexing Puzzles – Gardner

Picture Puzzles – Sam Lloyd

Secret Code Kit – Slinky, Inc.

Top Secret – Paul Janeczko

Gimme A Break – SO Aristocrats (may be digraphs / trigraphs) (1) Unless otherwise stated ZANAC

A-1, the (4), A-2, the (4), A-3, ing (2), time, A-4, the, to (2), A-5, and (2), th (2), A-6, ing, ion, A-7, in (2), ll (2), tt, A-8, that, the (5), A-9, that, the, A-10, the (2), A-11, the (2), A-12, all (2), I (2), the, A-13, th (3), A-14, a, and, A-15, a (2), is (3), rd (4), A-16, do, the, to, A-17, a, I (4), O, A-18, e (10), a (8), A-19, a (8), e (9), A-20, ships, A-21, knight, A-22, ld (4), the (2), A-23, yacht, A-24, children, A-25, **No “a” or “I” here**, the, ac & ar (2)

SO Patristocrat Ciphers – (may be digraphs / trigraphs) (1) Unless otherwise stated ZANAC

P-1, the (2), P-2, the (3), P-3, the (3), P-4, that, the (3), P-5, the (2), ss (3), P-6, th (2), the, P-7, the (3), P-8, that, the, P-9, the (3), P-10, leaves, P-11, de, ed (2), that, P-12, the (4), P-Sp-1, a (8), t (9), P-Sp-2, and, ed (4)

SO A-25. Beale Cipher? K3 (79)

LIONEL

Red Herring Alert: Beware of Devious Constructors Bearing Yuletide Gifts. Single letter is neither an “a” or “i.”

SO P-12. Learning. K4 (116/21) (ULY) EL CONDOR
 SENORITA letters represent 71 of the 116 letters in this cipher; crib contains 34 of 71; “e” is well represented.

SO X-7. ??? K2 (125) Fortune favors the brave. (English Key) G-MAN
 The absence of this language type appearing elsewhere in this Xeno column, frequent usage of multiple single letter words and the high frequency usage of the letter “e” will lead to this language type and the decrypting of plaintext words 2, 3 and 4. The K2 alphabet is an aid in determining the plaintext of ciphertext OSH, O and S, four letters apart.

SO E-1. Porta. Or doing nothing. (consists) OZ Analyst GGMA
 Period 7. With this nice crib, just look for CS in one of the columns

SO E-2. Complete Columnar. Asian wisdom. LINB Analyst GGMA
 Since the length is 44, the factors are 4 and 11 (2 and 22, unlikely). Period 4, you have only 24 possible keys. J

SO E-5. Nihilist Transposition Juggling act. (two in one) APEX DX Analyst GGMA
 Our *ACA and You Handbook* allows this encipherment to be taken off by rows or columns. Check both horizontal and columnar posting of ciphertext. Pick the matrix generating rows plentiful with vowels.

SO E-6. Gromark. Follow your script. (keillor). DANEEL Analyst GGMA
 Keillor is a famous name. An Internet search will give you his first name, Garrison.

SO C-2. Square Root. (Two words, 1-0) D. STRASSE
 Can't do square roots? Look what can be done with simple addition and subtraction in this Square Root Cryptarithm.

<u> T </u>	<u> T </u>	<u> N </u>	<u> B </u>	<u> A </u>	<u> D </u>	<u> M </u>	<u> O </u>	<u> N </u>	<u> S </u>	<u> T </u>	<u> _ </u>	<u> _ </u>	
V	ST'	ON'	ED	1	2	3	4	5	6	7	8	9	0

 NM

BMON

 BDMM

BBAED

 BREEN

 NES

T squared must generate a second digit (M) in the first subtrahend which will equal the second digit in the first remainder (M) so T = 8 and M = 4

S in the radican must = one more than N in the first subtrahend to allow B to = 1 (O-M)

D (Remainder 2) must equal 3 for N to = 6 (Subtrahend 3) and S to = 7 (Remainder 3)

N (Remainder 1) minus M (subtrahend 2) equal A or 2

D (Remainder 2) must equal 3 for N to = 6 (Subtrahend 3) and S to = 7 (Remainder 3)

ND A-17. Trouble. K3 (100) BION
 Only four common words fit pattern ciphertext QDCQDQVN, six fit YIDVHQVGDC. Find the letters which fit both.

ND P-12. Humbug K4 (103/20) (ZIL) G-MAN
 Look for that time of year associated with the title.

SO AC-965. Numbered Key. G-MAN
This is a fun cipher. Do not pass it by.

1) See BION's MJ2010 article for process.

2) Fit crib (philosophy) in 1234565127 CT pattern.

3) Fill in crib generated plaintext letters thru text.

4) Plaintext balance will be retrievable.

ND E-4. Beaufort. Power corrupts. (test) FIZZY
 This one solves just like a Vigenere.

Abraham Lincoln is prominent in both the key and the text.

ND E-7. Incomplete Columnar. Space flight. (from)

BRASSPOUNDER

ACA and You Handbook rules make this a Period Six or Seven. Look for space terms and space flight location.

Sunny Ciphering, LIONEL

cc: ACA Executive Board