



Editor – LIONEL@cryptogram.org

Staff – APEXDX
FIZZY
RISHU

Another APEX DX baffling construction?

COPST - Contribution of Personal Solving Techniques

***Contribution Of Personal Solving Technique – Cryptarithm Constructions**

CROTALUS

The process of constructing a cryptarithm with coherent words for both the construction and keyword.

- 1) Pick out the words you would like to use in your construction. For the equations cryptarithm below we will use GREAT LAKES which results in the eight letter key of GREATLKS, needing two more letters.
- 2) Add two unused letters which will anagram into a coherent word or words. We'll pick the letters I & C which will anagram into the key words of TRICK GALES.
- 3) Place TRICKGALES over 0-9, 9-0, 0-1 or 1-0 for your key.
- 4) We'll use 9-0. TRICKGALES
9876543210
- 5) GREAT + LAKES = IECGT, GREAT - LAKES = LGCLT
48139 + 23510 = 71649, 48139 - 23510 = 24629

Tyro Tutorial Free E-Mail Offer

LIONEL

Tyro Tutorial (148 pages) by LIONEL, fundamental cipher solving processes of some thirty different cipher types.

APEX DX Challenge- Page Three

See page three for an APEX DX Simple Substitution Cipher with a quote from someone we all know well. Enjoy and let LIONEL know when you identify *CZCTGT.

Sudoku Interactive Solver at <http://www.scanraid.com/Sudoku.htm>

Pattern Word List – See SO A-25, below, for Pattern Word List Offer.

Free Code and Cipher Books –Place an order. The mailing is also free.

Classical Cryptographic Systems – Clayton Pierce (ACA Noms, JACK N JILL, SI SI)

Codes, Secret Writing - Gardner

Cryptanalysis – Helen Gaines

Crypto & Spygrams – Gleason

Cryptography – Dwight Smith

Find Out about Secret Codes – Beal

Fun with Secret Writing - Lamb

Invitation to Cryptograms –Williams

Mad Scientists Club – Brinley

Names Index, Enterprise Publishing

Reader of Gentlemen's Mail – Kahn

Secret & Urgent – Fletcher Pratt

Secret Codes & Ciphers – Kohn

Seizing the Enigma – David Kahn

Spymasters of the Civil War – Markle

The Story of Magic – Frank Rowlett

Gimme a Break – SO Aristocrats (may be digraphs / trigraphs) (1) unless otherwise stated

A-1, that, the, A-2, that, the (3), A-3, the (2), A-4, the (3), A-5, my (2), A-6, the (2), A-7, that, the, A-8, the (2), A-9, the (2), A-10, that, the, A-11, in (5), A-12, fresh (2), A-13, H=e, A-14, and (2), A-15, G=e, A-16, B=r, A-17, of (6), A-18, en (4), A-19, civet, A-20, was (3), A-21, ing (2), A-22, and (2), A-23, ing (2), A-24, into, A-25, cruise.

Gimme a Break - SO Patristocrats (may be digraphs / trigraphs) (1) unless otherwise stated

P-1, the (2), P-2, TU=of, P-3, home (2), P-4, that, P-5, adam (2), P-6, the (2), P-7, state (2), P-8, ess (2), P-9, that, the (2), P-10, mime, P-11, the (2), you (2), P-12, that, P-Sp-1, six (2), that, P-Sp-2, QTNV=like.

- JA. Errata. X-9. Dutch Complete Columnar Errata. Period six. Should read, Begins “Ervaring.....”** BARK
- JA. A-18. **Dancing in time. K2. (102)** Allen Sherman hit camping song of the Sixties. HARMONIX
- JA. P-12. **Do they really maketh the man?** American author, poet of the 1850’s in plaintext. TSIOLKOVSKY
- JA. X-4. **Dutch Aristocrat. K1. By comedian Louis CK. (grotere) (95) (English key)** Begins “Vaarom” BARK
- JA. X-8. **Portuguese Patristocrat. Perspective. (hora em) (93)** Crib position 76, begins “Bem te...” THE DOC
- JA. X-7. ??? **K2 A poem. (98)** French construction begins “Fa.....” RIG R. MORTIS
- JA. X-10. **German Ragbaby. Threats. (aggressiv) English key.** ANCHISES
Crib fits only seventh word. Plaintext begins “Bismarck...” English key begins with “B” and has letter “Z” in it.
- JA. E-6 **Pollux. Relationships. (who) 0 = dot, 9 = dash. (Crib = pygmy)** G-MAN
- JA. E-7. **Amsco. Riddle. (barnyard) Period nine. Begins “Mike.....”** ABEHERSH
- JA. E-8. **Unknown. Unsolved. (book) Route Transposition. Begins “Has.....”** DLUX
- JA. E-11. **Quagmire II. Keeping up with the Joneses. Period 7, crib placement position 72, begins “Too.....”** OZ
- JA. E-12. **Foursquare. Mass warfare. Crib placement position 49, opening plaintext “Often thought.....”** THE DOC
- JA. E-14. **Phillips. Hard to swallow. (expensive) Crib at position 33, plaintext start “The beans....”** THE DOC
- JA. E-15. **Portax. High concentration. Period eight. (Crib – Hawaiian)** BION
- JA. E-16. **Bifid. Short weekend. Extended crib “sixthtwelftheighteenth” begins at position 92.** CRUX
- JA. E-18. **Trifid. Music lesson. (Ends: humility) Plaintext ends “humilityx.” Begins “Whenever....”** SCRYER
- JA. E-19. **Bazeries. A lesson in personal protection. First key digit of six digit number = 7.** TSIOLKOVSKY
- JA. E-21. **CM Bifid. Ancient ritual. (peninsulaofqueensland) Ext. tip, pos 87, plaintext begins “The oldest”** CRUX
- JA. E-22. **Quagmire IV. Always some good with the bad. Period nine. Crib placement at position 162.** OZ
- JA. **Two-square. Practical observation. (attributed) Pt start 2nd letter pos 48, plaintext start “As Yogi”** SCRYER
- JA. C-14. **Undecimal Division. (Three words, 0-A) First word = “word.”** L’L GAMIN
- JA. C-Sp-2. **Duodecimal division. (Three words, 0-B) Two five letter words, “H” and “G beginnings.”** APEX DX
- SO. SO-2. **Railfence. Use a template. (cipher) Four rails, determine number of offsets – 1 or 2.** LIONEL
- SO. A-18. **K-L-M. K1. (102) Title may suggest plaintext appearance of airline or alphabet.** RHIZOME
- SO. A-25. **Vacation from hell. K3. (93) See note below on pattern word lists.** DUMPSTER
- If your pattern word list does not reflect just one word for ciphertext “FISGUSFILR,” contact LIONEL for a new list.
- SO. P-8. **Source of evil. K4. (106/23) (KOCNY) Title here appears word for word in the plaintext.** G-MAN
- SO. P-Sp-2. **Hard landing. K3. (98/21) (-FCEY) Second crib – “vacuum”.** BION
- SO. X-7. ??? **K2. No return. (English key) Portuguese translations for opportunity and proverb will help.** G-MAN
- SO. X-9. **French Complete Columnar. Dans L’argile. (ancienne) Period nine. Begins “Su me....”** RAMIUS
- SO. X-10. **German Amsco. Be hopeful. (fuerttet) Period nine. Begins “Der.....”** RIG R. MORTIS
- SO. E-1. **Complete Columnar. Carry on. (DELOLWB) Period six. Sir Winston quote on success.** MSCREP
- SO. E-2. **Railfence. Spelling counts. (ZYGCHCHY) Seven rails, two offsets.** G-MAN
- SO. E-3. **Morbit. Geological mimicry? (VINB NBY) Crib placed at position fifty-nine.** TSIOLKOVSKY
- SO. E-6. **VARIANT. Scientific discovery. (seven) Period 19. Plaintext begins” Disc.....”** NIVEK
- SO. E-7. **Amsco. A debunker debunked. Period six. Mark Twain non-quote, begins “Sadly”** TSIOLKOVSKY
- SO. E-9. **Quagmire I. Begin at the beginning. Period nine, crib position 65, begins “The.....”** NIVEK
- SO. E-23. **Quagmire IV. Reality drawback. Period seven, crib position 40, begins “The tr....”** BION
- SO. C-9. **Sudoku. (Two words*) Begins at bottom of ninth column with letter “C.”** ASYMPTOTE
- SO. C-12. **Undecimal Equations. (No word, 1-0) Solution begins “NBH”** COLD DUCK
- SO. C-Sp-2. **Base 15 Sq. Root. (Two words, 9-0) Google for second ten letter word beginning “GRY”** ARIES
- SO. AC-1112. ??? **It’s not a car crash. (186) (WJUFNWX)** NIVEK

Check the constructor and ciphertext start in this month’s E-6 Variant. You will find similarities helping identify this construction as one of the Vigenere cipher types. Period 13. Check Google for beginning plaintext “Cerns” NIVEK

Sunny Ciphering, LIONEL

cc: ACA Executive Board

One Man's Philosophy

APEX DX

K GJX EBJM K GJX JQL MBJM'H JVV K GJX. *CZCTGT

I'm not wholly sure how that basic sentiment came to be posted, twenty-five or thirty years ago, above the chalkboard in the college lecture hall where I taught introductory Physical Science.

I had posted it, I do confess, but quite possibly for an after-class Mathematics Club which had met in the same location. That group had been exploring statistics of letter distribution, using newspaper and other prose sources.

The Physical Science teacher-to-be had seriously looked to decipherment rather than to Physical Science (to my belief) until, one afternoon, an astute young woman had experienced an "Eureka moment" and called out, joyously and correctly identifying *CZCTGT.

In any event, as I somehow had returned everyone to Physical Science endeavors, the joke had to have been on me.

You don't pose an un-keyed, overly brief (thirty-three letter) substitution cipher as necessarily solvable, even though this one had been clearly just that. Length, letter diversity, ACA guidelines on such matters do make their point.

The MBJM's is one elegant giveaway and as generous a nudge as anyone could wish.

Enjoy! And do let LIONEL know when you identify *CZCTGT. He wasn't an Einstein, Mark Twain or George somebody but our generation knew him well.