



# Young Tyros Newsletter

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PARROT

ND-24 - Sasson's Sonnet?

RISHU – Richly Innovative Solving Help Utility

### Aristocrat Cipher

RISHU

In real life cryptography we have some knowledge and probably a lot of ciphertext to analyze. Newspapers and magazines such as our own Cm have space restrictions which limit the amount of ciphertext they can print. In place of large amounts of text which aid solving, subject titles are provided. Analysis of the Aristocrat cipher begins by checking the title for thoughts or words that might appear in the plaintext. Look for common short words (in, it, is, of, no, on, and, the). 'The' often starts a sentence. One letter words most always are "a" or "i.". (Rare exceptions are "O," "X" marks the spot.) Letter frequency counts may lead us to the most often used letter "e". Pattern words are those words having repeat letters. We think of the common pattern word "that" in terms of 1-2-3-1, meaning the first and last letter of the word are the same. Keep in mind that once a cipher text letter is used for a given plaintext letter, it must always be used for the same letter. Look for highly repetitive trigraphs (three letters) "the", "you", "ing" and highly appearing pattern words "ever - 1213", "good - 1223", "truth - 12314". "which - 12342", "people - 123142", "little - 123314" and "better - 123324".

### The Tyro Tutorial

Available at our ACA web site under Resources, it describes the solution process to some thirty different cipher types and includes a Railfence Template, Polyomino Congruent Squares by APEX DX, a comprehensive listing of Null Variables by BION, Foursquare Cipher digraph frequencies by RISHU, and the use of Google as a solving tool.

### Junior Young Tyros Newsletter

In addition to this Senior Young Tyros Newsletters, we have an additional Newsletter published bimonthly for school students. If you would like a family or friend youngster to receive one, please send us their name and E-Mail address.

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

*American Magic* - Levin – Wrixon      *Cryptographic ABC's* – B NATURAL      *Hitler's Spies* - Kahn  
*Invitation to Cryptograms* - Williams      *Mysterious Messages* – Blackwood      *Seizing the Enigma* - Kahn  
*Three Ways to Solve Cryptograms* – NYPHO, RED E. RASER, FLUKE      *Unbreakable Code* – Bertman

ZANAC's Gimme a Break – JF Aristocrats (may be digraphs / trigraphs) (1) unless otherwise stated  
A-1, that's, A-2, you (2), A-3, the, A-4, you (2), A-5, e (11), A-6, the (2), A-7, the, A-8, the, A-9, who (2),  
A-10, the (2), A-11, ou (4), A-12, the (2), A-13, that, A-14, the, A-15, the, A-16, you (3), A-17, the (3), A-18, the (2),  
A-19, the (2), V = t, A-20, clo (2), A-21, and, the, A-22, ele (2), A-23, Z = p, A-24, bikes (2), A-25, HPOH = sits.

ZANAC's Gimme a Break - JF Patristocrats (may be digraphs / trigraphs) (1) unless otherwise stated  
P-1, the (2), P-2, the (4), P-3, the (2), P-4, the (2), P-5, FOISODAS = Ryugyong, P-6, QTTN = been, P-7, month (3),  
P-8, that, P-9, the (3), P-10, the (6), P-11, that, the (2), P-12, that, the (3), P-Sp-1, ing (2), P-Sp-2, Alliteration, F = m.

ND-1. <b>Numbered Key.</b> MSCREP: Crib “eenoughgreen” Begins “Even though”	<b>BION</b>
ND-2. <b>Nihilist Substitution.</b> MSCREP: Period Ten. Plaintext begins :Every coral”	<b>BION</b>
ND. A-24. <b>War poems. K4.</b> Hint at top of page one.	<b>EL CONDOR</b>
ND. P-Sp-2. <b>Winter landscapes. K3.</b> Leads off with adjective for that white stuff.	<b>CONFUOCO</b>
ND. X-8. <b>German Patristocrat. A slight problem. (erwachte)</b> Plaintext begins Als Gregor	<b>BION</b>
ND. X-9. <b>Spanish Baconian. Fulfilled. (rico)</b> Begins “Quienes”	<b>MANDRAKE</b>
ND. X-10. <b>French Variant. Trustworthy. (personnes)</b> Period six. Begins “Le probleme”	<b>THE DOC</b>
ND. E-9. <b>Unknown. How life-like.</b> Homophonic. Crib “the line”	<b>TSIOLKOVSKY</b>
ND. E-10. <b>Portax. Vegetables.</b> Period Six. A limerick beginning with a popular three letter trigraph.	<b>OOBOO</b>
ND. E-11. <b>Bifid. Very relaxing.</b> Crib extension “ideas and avoid” placed at pos. 99. Begins “Jap-“	<b>ALCIBIADES</b>
ND. E-12. <b>Ragbaby. In the wrong business?</b> DWZDWDD = batting. Begins with a sport.	<b>AURION</b>
ND. E-23. <b>Checkerboard. Future travel. (American)</b> Keywords – BARGE HEART. Begins and ends in?	<b>ZSA</b>
ND. C-10. <b>Equations. (Two words, 0-1)</b> First word, 5 letters, beginning with P. Second word begins H.	<b>TOMMY</b>
ND. C-11. <b>Undecimal Division. (Two words, 0-A)</b> Six letter words, begin A and B, end T and P.	<b>L’L GAMIN</b>
ND. C-12. <b>Duodecimal Square Root. (Two words, 0-1)</b> 0 = O, 8 = P, 5=D, 1=C.	<b>FUNERALLY</b>
ND. AC-1271. <b>Tridigital. Dexterity needed.</b> MSCREP: Exercise for typists. Begins “William Jex”	<b>THE RAT</b>
ND. AC-1272. <b>Numbered Key. Tightly packed.</b> MSCREP: Begins “Each of our” PARROT: “Grain of sand”	<b>BION</b>
ND. AC- 1273. <b>Quagmire IV.</b> MSCREP: Period 12, Extended start to crib “they certainly do”-at position 209.	<b>BION</b>
Begins with popular three letter trigraph.	
ND. AC-1274. <b>Fractionated Morse. Aphorism.</b> MSCREP: Plaintext crib “Chinese”	<b>EL CONDOR</b>
JF-1. <b>Aristocrat. Bad memories. K2.</b> (the-3)	<b>VERMONSTER</b>
JF-4. <b>Null. Keep an open mind. (yellow)</b> Look for a separation of six between ciphertext letters.	<b>BECASSE</b>
JF-7. <b>Morbit. Inventions. (spell)</b> Begins “If Al”	<b>LATIN DUDE</b>
JF-10. <b>Keyphrase. I want to be rich! (Through a process)</b> (x = I, z = G) Begins “Bitcoin”	<b>VERMONSTER</b>
JF. A-23. <b>It made him happy. K3.</b> *Peter *Piper	<b>WORD WIZARD</b>
JF. P-12. <b>Men and marriage. K3. (105/19) (DOMN)</b> Begins with popular three letter trigraph.	<b>OOBOO</b>
JF. X-4. <b>Dream. K1. (glaubst)</b> K1 alphabet will help solving this. Ends with name of German poet.	<b>SHMOO</b>
JF. X-7. <b>Turn the other cheek. K2. (English key)</b> Romantic language. Begins “Yo no”	<b>THE DOC</b>
JF. X-Sp-2. <b>Italian Quagmire II.</b> Crib extension, “dellanostravitapiuchiaodovremno”. Begins “Piu”	<b>LIONEL</b>
JF. E-1. <b>Complete Columnar Transposition. Heat and motion.</b> Period 7. Begins “All”	<b>XAMAN EK</b>
JF. E-4. <b>Homophonic. Ponder this.</b> Begins “Old”	<b>WORD WIZARD</b>
JF. E-6. <b>Morbit. What we strive for. (ideals)</b> Begins “One”	<b>APEX DX</b>
JF. E-7. <b>Railfence. The joke’s on you.</b> Period Five. No offsets.	<b>LIONEL</b>
JF. E-8. <b>Quagmire I. Crazy persons. (certain of themselves)</b> Period 6. Begins with popular 3 letter word.	<b>OOBOO</b>
JF. E-13. <b>Incomplete Columnar Transp. Make me an offer. (Period Six)</b> “Look for Thoreau”	<b>FLEETFOOT</b>
JF. E-14. <b>Null. Milton Caniff timeline. (are)</b> Key lay in ciphertext vowels.	<b>APEX DX</b>
JF. E-19. <b>Redefence. Well-wisher? (you)</b> Four rows, begins with popular three letter word.	<b>RIG R. MORTIS</b>
JF. E-20 <b>Amsco. It’s all about viscosity. (bottle)</b> Period 9. Begins with popular three letter word.	<b>TIGER’S EYE</b>
JF. E-21. <b>Key Phrase. Bottom line. (tell)</b> *Zsa *Zsa	<b>APEX DX</b>
JF. E-23. <b>Vigenere. Behind every quiet man. (under)</b> Period Eight. Begins “Pity”	<b>G-MAN</b>
JF. C-5. <b>Equations. (Three words, 9-0)</b>	<b>PARROT</b>
First word, four letters, ends with Y. Second and third words, three letters, end with G and N.	
JF. C-14. <b>Duodecimal Multiplication. (Thee words, 0-1)</b>	<b>FUNERALLY</b>
First word, four letters, ends with W. Second word, one letter. Third word begins with F and ends with T.	

Sunny CIPHERING, LIONEL