JA E-7 Turning Grille Solution Process   COPST - Contribution of Personal Solving Techniques

August Newsletter Errata   **STRONGLIKEBULL**

JA A-24 begins "Maniac." JA X-8 should be identified as Spanish Patristocrat. JA E-13 Gronsfield is Period Nine.

Solution of JA17E07 Grille: Plaintext Identical to E-1 Complete Columnar.   **APPLE JACK**

YTAHA DDETL YOELS RRLSO AEOAM.   [SIA = Solve It Again]

[For credit, which Grille squares are open? Numbered 1 to 25.]

COPST - Contribution of Personal Solving Techniques   **MSCREP**

It is essentially assumed that you have already solved E-01 and that you are aware that the plain text is "They say all roads lead to Rome". You will never get a better Crib than this! To get credit for a SOL, the column editor wants you to provide the grille pattern (i.e., the grille key) for the E-07 CON. Let's first place the cipher text into a 5 x 5 matrix and provide a key for the matrix position numbering.

```
Cipher Text  Position ID
Y T A H A        01 02 03 04 05
D D E T L        06 07 08 09 10
Y O E L S        11 12 13 14 15
R R L S O        16 17 18 19 20
A E O A M        21 22 23 24 25
```

Our next task is to pick a pattern for the grille. Since the pattern will be rotated into 4 positions and the plain text is 25 characters long, the number of letters in the pattern must be $25/4 = 6.25 = 6$.

Since the central position (13) is also the center of the grille rotation. This position will therefore be rotated into itself. The central character ('E') cannot be part of the grille pattern. It will either be ignored (Sometimes for odd size grilles a central 'X' will appear) or used in one of the 4 grille positions to fill out the message.

Tyro Tutorial Free E-Mail Offer.   **LIONEL**

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

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

A-1, the, A-2, I (2), A-3, in (4), A-4, a (3), A-5, the, A-6, ing (2), A-7, the (5), A-8, the (2), A-9, the (3), A-10, the (2), A-11, in (2), A-12, the (2), A-13, and (2), A-14, his (2), A-15, my (2), A-16, and, A-17, the (4), A-18, the (3), A-19, the, A-20, the, A-21, the, A-22, cadent, A-23, view, A-24, a (8), A-25, fake.

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

P-1, ing (3), P-2, C=I, P-3, that, the (2) P-4, that, the (2), P-5, the (3), P-6, that, the (3), P-7, the (2), P-8, ing (4), P-9, the (2), P-10, the (3), P-11, TVYX=risk, P-12, the (3), P-Sp-1, JYXO=home, P-Sp-2, the (3).

JA. Cover Ornamental. Tubes. PARROT solving process analysis.   **BION**
The cover is a 10 x10 grid that will solve as a Patristocrat. If you look carefully at the pictures, you can see where the squares were spliced together. Use a ruler and draw lines to separate each square.

JA. A-25. Disaster on the water. K4. 83. Look for "tsunami" in plaintext.   **PETROUSHKA**

JA. P-Sp-1. Richard III. Message 8 of 31. K3. (100/22) (BYHLS)   **RAMIUS**
Keep in mind the theme of these 31 Richard III messages, look for Queen Margaret and King Henry in the plaintext.

JA. X-6. Swedish Aristocrat. K2. Lagom mycket radsla. Plaintext begins "En liten"   **OOBOO**

JA. X-10. Afrikaans Pollux. Enjoyment. (briewe) Crib placed at pos. 103. Plaintext begins "Eed van" **THE DOC**

JA. E-2. Cadenus. Greedy people. (kicked)   **WORD WIZARD**
Be careful to solve this as a Period Three and not a Period Five. Crib provides plentiful overlap.

JA. E-4. Incomplete Columnar Transposition. Honesty. (little) Period Five.   **POGO**

JA. E-8. Swagman. Very puny chase? (because) Period Five. Plaintext begins "Why"   **THE RAT**

JA. E-10. Checkerboard. Family occasions. Crib extension "musicians."   **APEX DX**

JA. E-12. Conjugated Matrix Bifid. Show some respect! Plaintext begins "Calling your…"   **G-MAN**

JA. E-14. Porta. We depend on those who can. Period Eight. (change-3)   **OZ**

JA. E-16. Bazeries. Say what? MSCREP: Five digit key begins "14."   **ANAPEST**

JA. E-17. Nihilist Substitution. Two-time error.   **RAMIUS**
MSCREP help - Period Nine. Column six Key Word digits = 24. Plaintext begins "The….."

JA. E-18. Phillips. Lie detectors. Extended crib "to record blood pressure" at position 24.   **THE DOC**

JA. E-21. Key Phrase. Gigging is fun. MSCREP extended crib "dogwood shrub."   **G4EGG**

JA. E-25. Two-Square. State Park. (hundreds to) Ext. crib placement compliment of **PARROT.**   **HONEYBEE**

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ST AU DZ FT ET KU RZ GS ER RM NY

nt he ei gh te en hu nd re ds to
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JA. C-11. Duodecimal Equations. (Four words, 0-1) Begins "It"   **LATIN DUDE**

JA. C-14. Duodecimal Division. (Three words, 0-1) I = 8, E= 0.   **LI'L GAMIN**

JA. C-Sp-2. Duodecimal additions. (Three words, 0-1) MSCREP crib – N = B, T = 8.   **APEX DX**

SO. SO-1. Ornamental. Gateway. PARROT hints that white and black diamonds provide a clue.   **BION**

SO. A-25. High wire illumination. K2. (83) Google tight rope walker synonym for some plaintext.   **LE CRAPAUD**

SO. P-Sp-1. Shonda Rhimes. K3. (99/19) (BIGY) Google Shonda Rhimes "future" quotes.   **BARK**

SO. X-9. Spanish Complete Columnar. Promise made 1914 Mexico. Period 7, begins "Aquel"   **CILLBIPHER**

SO. X-10. German Variant. Ageless. (wird) Period Four. Begins "Je"   **G4EGG**

SO. E-2. Swagman. Strangely named. Period Four. Vertical ciphertext.   **RIG R. MORTIS**

SO E-3. Null. Somebody has to do it. (work) MSCREP advises crib begins at ciphertext SEAWEED.   **REAL NEO**

SO. E-4. Amsco. Man's real best friend. (civilization) Period Seven. Plaintext begins "Books"   **MSCREP**

SO. E-5. Morbit. Vacation. (great) Crib position 75, 2.   **COLD DUCK**

SO. E-6. Baconian. Pretty birds. (pack) Crib placement near beginning of ciphertext.   **ARIES**

SO. E-7. Incomplete Columnar. Everyday problems. Period Four.   **MARSHEN**

SO. E-8. Beaufort. You don't say. Period Eight, plaintext begins with common three letter word.   **CRUX**

SO. E-9. Checkerboard. Keep moving. (path) Crib placement at 58th digraph, common three letter start. **ICECAP**

SO. E-12. Fractionated Morse. What's in a name? Crib placement at position 121, 2. Common start.   **BECASSE**

SO. E-14. Quagmire II. Admonition to executives. Period 7. Ext. crib "the best thing you can" at position 43.   **OZ**

SO. E-18. Variant. No longer behind bars. Period Twelve. Crib – "London."   **TSIOLKOVSKY**

SO. E-22. Nihilist Substitution. Marine efficiency. Period Eight. 76 = t, 48 = h, 55 = e.   **LIONEL**

SO. C-9. Multiplication. (Two words, 0-1) First word, four letters. o =U, 6 = M, 1 = N.   **OZ**

SO. C-12. Division. (Two words, 0-1) First word, three letters. 0 = T, 7 = B, 1 = H.   **LI'L GAMIN**

Sunny Ciphering,   LIONEL

Since we know the entire plain text, we know that the first six letters are "They sa". This rapidly leads to the following grille positions: Cipher Text Position ID

```
Y T A H A          01 02 03 04 05
D D E T L          06 07 08 09 10
Y O E L S          11 12 13 14 15
R R L S O          16 17 18 19 20
A E O A M          21 22 23 24 25
```

Note that the position of 'they' is forced by the position of the 'y' character at position 11. The positions of 's' and 'a' would appear to have some options (i.e., at positions 15 and 24 positions 19 and 21). However the alternate positions are ruled out by the fact that position 11 will rotate to position 15 and position 2 will rotate to position 24. Each position in the cipher text can only be used once, so we rule out the 15 and 24 alternates.

Let's rotate the grille 90 degrees clockwise. This provides: Cipher Text Position ID

```
Y T A H A          01 02 03 04 05
D D E T L          06 07 08 09 10
Y O E L S          11 12 13 14 15
R R L S O          16 17 18 19 20
A E O A M          21 22 23 24 25
```

The plain text for the first two grille positions reads "Theysa yallro". So far so good!

Let's again rotate the grille 90 degrees clockwise. Cipher Text Position ID:

```
Y T A H A          01 02 03 04 05
D D E T L          06 07 08 09 10
Y O E L S          11 12 13 14 15
R R L S O          16 17 18 19 20
A E O A M          21 22 23 24 25
```

The plain text for the first three grille positions reads "Theysa yallro adslea". Note that positions 15 and 24 are used in this grille position! Lastly, let's once again rotate the grille 90 degrees clockwise. This provides: Cipher Text Position ID

```
Y T A H A          01 02 03 04 05
D D E T L          06 07 08 09 10
Y O E L S          11 12 13 14 15
R R L S O          16 17 18 19 20
A E O A M          21 22 23 24 25
```

The plain text for all four grille positions in order reads "Theysa yallro adslea dtorom". We now utilize the center character as an end cap and the total plain text reads "They say all roads lead to Rome." Reread this tutorial until you are sure you understand the methods involved. Feel free to submit the 6 digit initial grille setting for credit.

MSCREP

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