ANSWERS AND SOLUTIONS

Alphametics

49.2.1 Doubly True - Roman by Andrzej Bartz, Fuerth, Germany

\[ 222725000 + 222725000 + 92227775000 + 22272500 + 19226777500 = 111922275000 \]

49.2.2 Doubly True - Italian by Giulio Cesare, Rome, Italy

\[ 393484 + 9007507 + 865099009 + 26486509 = 900986509 \]

49.2.3 Doubly True – English by Junya Take, Kanagawa, Japan

\[ 4 \times 137 \times 137 + 4 \times 137 = 75624 \]

49.2.4 Another Doubly True – English by Junya Take, Kanagawa, Japan

\[ 58(36088) + 4(4148) + 3(384) + 3(7173884) + 65420827198 + 6542082384 = 71986542082 \]

49.2.5 United Nations by Paul E. Boymel, Potomac, Maryland

\[ 2610 \times 8979 = 23435190 \]

49.2.6 Days Of The Week by Andrzej Bartz, Fuerth, Germany

\[ 674850 \times 8c4850 = 1796850 \times 3a2850 \]

Assembly Lines – 1

1. A B O A R D
2. B U R E A U
3. C A V E R N
4. C O L L A R
5. E N A M E L
6. H O N E S T
7. I S O M E R
8. L O A T H E
9. L I T C H I
10. M I S L E D
11. M A R T Y R
12. R E V I L E
13. S A C H E T
14. T A B L E T
15. V A G U E R
16. W E A S E L
Answer to AUTOMOTIVE NAMEPLAY: In the expanded chain, you have to change SENTRA (in the original chain) to TUNDRA (in the new chain). Then you change TUNDRA to DATSUN. TUNDRA is the SUV, and DATSUN is the bygone car name. Can anyone expand the change even further?

SUBARU --> TAURUS --> SATURN --> TUNDRA --> DATSUN

Answers to DUNG WHISKERS

"Anguish Languish" = "English Language"
"Dung Whiskers" = "Tongue Twisters"

1. Peter Piper picked a peck of pickled peppers.
   A peck of pickled peppers did Peter Piper pick.
   If Peter Piper picked a peck of pickled peppers,
   Where’s the peck of pickled peppers Peter Piper picked?

2. Betty Botter bought some butter.
   "But," she said, "this butter’s bitter.
   "If I put it in my batter, it will make my batter bitter!"
   So Betty Botter bought some better butter.

3. How much wood would a woodchuck chuck if a woodchuck could chuck wood?

4. She sells seashells by the seashore.

5. I scream, you scream, we all scream for ice cream.

6. Rubber baby buggy bumpers.

7. The sixth sick sheik’s sixth sheep’s sick.

Answer to EXPLORING THE BADLANDS
Gondwanaland, the supercontent of 200 million BCE.
PUZZLE ANSWER

With properly added colons these are the approximate times when the two hands of a dial clock lie opposite each other and form a straight line. Contrary to simple-minded logic this only happens eleven times per half day, not twelve. The hint 2 sequence (incomplete) is when the two hands overlap. The key words in hint 3 are “time” and “think over it” rather than “think it over”.

RIDDLE ANSWER

Replace the numbers 1-12 on a clock face with the letters A–L, an idea suggested by Dave in response to the riddle. Numbers in the riddle represent the times that spell the bigrams. Thus 1[:]20 translates as 1 o’clock = A and 20 (minutes past one, on the 4) = D. Likewise 1:45 = A + I. Any other A-L bigram can be so expressed. Similarly, four-letter A–L words can be spelt as time intervals, eg, ABLE = eleven hours and fifteen minutes (1:10 - 12:25).

Other two-letter A-L words include: ah = 1[:]40, be = 225, etc for bi, eh, fa, ha, he, hi, id, if, la. You might also include 20 A-L chemical symbols (+ Be, Bi, He, La already named). Single letter symbols (B C F H I K) are ineligible because, for example, 2:00 = BL, not B.

Anagram Quiz 18

1. sharecroppers
2. allows
3. coagulates
4. dispute
5. self-proclaimed
6. diatribe
7. charioteer
8. clearances
9. sacrosanct
10. elevation
11. favourites
12. negotiated

13. eliminated
14. philology
15. out-pacers
16. barefoot
17. economists
18. seclusion
19. shit creek
20. persuaded
21. boyfriend
22. rarefied
23. mensurate
24. conditioning

25. self-harm
26. awakened
27. bewitch
28. if sat placid
29. adherent
30. antic
31. “Make sense!”
32. additional
33. embryonic age
34. ridicule “snot”
35. repugnantly
36. schoolmates

Anil
Crossdrome #1 Answers

B    A    T    T    L    E    B    E    L    T    T    A    B
    R    I
N    U    N    P    L    D    U    T    U
S    S    U    E    U    S    E    A
T    E    T    P    E    V    C    R    C    V
A    G    I    G    V    I    O
C    L    E    L    M
N    A    M    A    S    T    E    N    E    T    S
A    M    A    N
E    L    E    L    C
S    I    V    B    I    B    A
P    U    T    U    P    E    V    S    M    S
R    U    S    E    X    E    S    O
N    A    N    P    O    D    I    C    I
O    V    A
N    S    T    U    N    O    D    D    D    O    N    U    T    S
Crossdrome #2 Answers (The Sunday Crossdrome)
<table>
<thead>
<tr>
<th></th>
<th>Common Nouns-1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>TIME:</strong></td>
<td><strong>ANYTIME</strong> / <strong>BEDTIME</strong> / <strong>TIMEPIECE</strong> / <strong>TIMETABLE</strong></td>
</tr>
<tr>
<td>2.</td>
<td><strong>STOP:</strong></td>
<td><strong>BACKSTOP</strong> / <strong>STOPLIGHT</strong> / <strong>SHORTSTOP</strong></td>
</tr>
<tr>
<td>3.</td>
<td><strong>EYE:</strong></td>
<td><strong>EYEBALL</strong> / <strong>EYELID</strong> / <strong>OXYEYE</strong> / <strong>PINKEYE</strong></td>
</tr>
<tr>
<td>4.</td>
<td><strong>BOARD:</strong></td>
<td><strong>BILLBOARD</strong> / <strong>BOARDROOM</strong> / <strong>SURFBOARD</strong> / <strong>BOARDWALK</strong></td>
</tr>
<tr>
<td>5.</td>
<td><strong>ROAD:</strong></td>
<td><strong>ROADBLOCK</strong> / <strong>CROSSROAD</strong> / <strong>RAILROAD</strong> / <strong>ROADRUNNER</strong></td>
</tr>
<tr>
<td>6.</td>
<td><strong>PAPER:</strong></td>
<td><strong>PAPERBOY</strong> / <strong>PAPERHANGER</strong> / <strong>NEWSPAPER</strong> / <strong>SANDPAPER</strong></td>
</tr>
<tr>
<td>7.</td>
<td><strong>PAN:</strong></td>
<td><strong>PANCAKE</strong> / <strong>DEADPAN</strong> / <strong>PANHANDLE</strong> / <strong>SAUCEPAN</strong></td>
</tr>
<tr>
<td>8.</td>
<td><strong>NIGHT:</strong></td>
<td><strong>NIGHTCAP</strong> / <strong>FORTNIGHT</strong> / <strong>NIGHTMARE</strong> / <strong>WEEKNIGHT</strong></td>
</tr>
<tr>
<td>9.</td>
<td><strong>ARM:</strong></td>
<td><strong>ARMCHAIR</strong> / <strong>FOREARM</strong> / <strong>ARMREST</strong> / <strong>SIDEARM</strong></td>
</tr>
<tr>
<td>10.</td>
<td><strong>HOUSE:</strong></td>
<td><strong>COURTHOUSE</strong> / <strong>HOUSEHOLD</strong> / <strong>PLAYHOUSE</strong> / <strong>HOUSEWIFE</strong></td>
</tr>
<tr>
<td>11.</td>
<td><strong>LAND:</strong></td>
<td><strong>FARMLAND</strong> / <strong>INLAND</strong> / <strong>LANDMARK</strong> / <strong>LANDSLIDE</strong></td>
</tr>
<tr>
<td>12.</td>
<td><strong>DOG:</strong></td>
<td><strong>DOGFIGHT</strong> / <strong>DOLEGG</strong> / <strong>UNDERDOG</strong> / <strong>WATCHDOG</strong></td>
</tr>
<tr>
<td>13.</td>
<td><strong>MAN:</strong></td>
<td><strong>FRESHMAN</strong> / <strong>MANHOLE</strong> / <strong>MANHOOD</strong> / <strong>NOBLEMAN</strong></td>
</tr>
<tr>
<td>14.</td>
<td><strong>HOG:</strong></td>
<td><strong>GROUNDHOG</strong> / <strong>HEDGEHOG</strong> / <strong>HOGTIED</strong> / <strong>HOGWASH</strong></td>
</tr>
<tr>
<td>15.</td>
<td><strong>CAP:</strong></td>
<td><strong>HUBCAP</strong> / <strong>KNEECAP</strong> / <strong>CAPSIZE</strong> / <strong>CAPSTONE</strong></td>
</tr>
<tr>
<td>16.</td>
<td><strong>COAT:</strong></td>
<td><strong>OVERCOAT</strong> / <strong>COATRACK</strong> / <strong>COATTAILS</strong> / <strong>TURNCOAT</strong></td>
</tr>
</tbody>
</table>
Some Elementary Questions

D. Francis

1. The only element whose atomic number is equal to the sum of the letter values in its symbol is aluminium. Its symbol is $\text{Al}$, the letter values are 1 and 12, which total 13, and its atomic number is 13.

2. The five elements are:
   - phosphorus; symbol $\text{P}$; total of letter values = 16; atomic number 15
   - argon; symbol $\text{Ar}$; total of letter values = 19; atomic number 18
   - scandium; symbol $\text{Sc}$; total of letter values = 22; atomic number 21
   - vanadium; symbol $\text{V}$; total of letter values = 22; atomic number 23
   - strontium; symbol $\text{Sr}$; total of letter values = 37; atomic number 38

3. The two elements are:
   - nitrogen; symbol $\text{N}$; atomic number 7; total of letter values = 14
   - silicon; symbol $\text{Si}$; atomic number 14; total of letter values = 28

4. carbon; symbol $\text{C}$; atomic number 6; total of letter values = 3

5. tellurium; symbol $\text{Te}$; atomic number 52; total of letter values = 25