

ANSWERS AND SOLUTIONS

Alphametics

S. Kahan

49.3.1 Alphametic Advertisement by Andrzej Bartz, Fuerth, Germany

$$C40E \times C869 = A424A426 \text{ (base 15)}$$

$$8CAF \times 8B2E = 4C7C4C72 \text{ (base 16)}$$

49.3.2 A Founding Father by Frank J. Mrazik, Montreal, Canada

$$29(56183) = 1629307$$

49.3.3 This Year by Junya Take, Kanagawa, Japan

$$8 + 8 + 382 + 9667 + 1663 = 11728$$

49.3.4 Distinct Terms –Italian by Giulio Cesare, Rome, Italy

$$7557 + 2769 + 80930 + 128030 + 5498030 + 6925127 + \\ 69257557 + 39257 = 81939257$$

49.3.5 Fair and Square Countries by Paul E. Boymel, Potomac, Maryland

$$(24325)^2 = 591705625$$

49.3.6 Multilingual by Andrzej Bartz, Fuerth, Germany

$$9555 + 95 + 95 + 50 + 55 + 5 = 9855 \\ \text{and} \\ 263803 + 383037 + 43037 = (1503) \times (459)$$

Etymons Gone Wild

M. Isaak

1. Columbia Records < District of Columbia < Columbia < Christopher Columbus < dove (Latin *columba*).
2. Astroturf < Houston Astrodome < Houston Astros < star (Greek *astro*).
3. Oxford shoes < University of Oxford < Oxford, UK < Oxenaforda, or “ford of the Oxen”.
4. NATO (North Atlantic Treaty Organization) < Atlantic Ocean < Mount Atlas (in Mauritania) < Atlas.
5. assassin bug < assassin < hashishiyyin < hashish.
6. email (electronic mail) < electronics < electron < electric < amber (Latin *electrum*).
7. Colorado potato beetle < Colorado < Colorado River < red (Spanish *colorado*).
8. Caterpillar, Inc. < Caterpillar tractor < caterpillar < shaggy cat (Old North French *chatepelose*).
9. bikini waxing < bikini < Bikini Atoll < “Coconut place” (Marshallese *Pikinni*).
10. gaydar (“gay radar”) < radar (“radio detecting and ranging”) < radio < beam (Latin *radius*).
11. *Legionella* < Legionnaires’ Disease < American Legion < legion.
12. Mayflower Compact < Mayflower < mayflowers < May < Greek goddess Maia.
13. sandwich board < sandwich < John Montagu, 4th Earl of Sandwich < Sandwich, Kent, England.
14. Cc (carbon copy) < carbon paper < carbon < coal, ember (Latin *carbonem*).
15. Space Shuttle *Enterprise* < Starship *Enterprise* (of Star Trek fame) < HMS *Enterprise* and USS *Enterprise*—many ships so named since 1774 < enterprise.
16. romances < Romance languages < Roman Empire < Rome < Romulus.
17. champagne < champagne < Champagne wine region < *Campania*.
18. burgundy < burgundy < Burgundy < Burgundians (English “highlanders”).
19. Chicago Manual of Style < University of Chicago (and U. of C. Press) < Chicago < either “place of wild onion” (Fox *sheka:ko:heki*) or “at the skunk place” (Ojibwa *shika:konk*).
20. canary melon < canary yellow < canary < Canary Islands < dog (Latin *canis*).
21. JavaScript < Java < Java coffee < Java, Indonesia.
22. polydnavirus < DNA (deoxyribose nucleic acid) < ribose < arabinose < gum arabic < Arab.
23. Joshua Tree National Park < Joshua tree (*Yucca brevifolia*) < Joshua < “Yahweh is salvation” (Hebrew *Yehoshua*).
24. *Hippocampus* < hippocampus < seahorse (genus *Hippocampus*) < horse monster (Greek *hippos kamos*).
25. Peanuts < peanut gallery (specifically, of the “Howdy Doody” show) < peanut < pea.
26. neanderthal < Neanderthals (now *Homo neanderthalensis*) < Neandertal, Germany < Joachim Neander.
27. china doll < china doll < china < China <? Qin.

Tumultuous Teams

S. Kahan

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|-----------------------|-----------------------|
| 1. BENGALS (NFL) | 11. BEARS (NFL) |
| 2. CLIPPERS (NBA) | 12. GIANTS (MLB, NFL) |
| 3. CHIEFS (NFL) | 13. PACERS (NBA) |
| 4. RANGERS (MLB, NHL) | 14. HORNETS (NBA) |
| 5. ANGELS (MLB) | 15. PADRES (MLB) |
| 6. LIONS (NFL) | 16. TITANS (NFL) |
| 7. OILERS (NHL) | 17. PREDATORS (NHL) |
| 8. RAPTORS (NBA) | 18. PIRATES (MLB) |
| 9. ROCKETS (NBA) | 19. SENATORS (NHL) |
| 10. ASTROS (MLB) | 20. STEELERS (NFL) |

Reflections

S. Kahan

1. TATTOO
2. MAMMOTH
3. WITHOUT
4. TOMTIT
5. AUTOMATA
6. MUUMUU
7. WHAMMY
8. MAXIMUM
9. TOMATO
10. OUTWIT
11. TATAMI
12. MOUTHY