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ALPHAMETRICS

Edited by STEVEN KAHAN

Please send solutions and proposals for new puzzles to
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51.2.1 Doubly True – 1 by Andrzej Bartz, Fuerth, Germany

\[ \sqrt{N I N E} + \sqrt{F O U R} = S I X - O N E \]

51.2.2 Doubly True – 2 by Andrzej Bartz, Fuerth, Germany

\[(T W O + T W O)^2 + (S I X - O N E)^2 = (O N E)^2 + (T W O)^2 + (S I X)^2\]

51.2.3 Up In Smoke by Andrzej Bartz, Fuerth, Germany

\[A \times L I T T L E \times P O T = I S \times S O O N \times H O T\]
(Please solve in base 12.)

51.2.4 Worldwide Cruise – 1 by Paul Boymel, Potomac, Maryland

\[F I J I \times W A L E S = M A L A Y S I A\]

51.2.5 Worldwide Cruise – 2 by Paul Boymel, Potomac, Maryland

\[M A L I \times O M A N = E T H I O P I A\]

51.2.6 A Capital Idea! by Frank Mrazik, Montreal, Quebec

THE + STATE + CAPITALS + ANNAPOLIS + CHARLESTON + CONCORD + DES + MOINES + HARTFORD + HELENA + LANSING + LINCOLN + MADISON + PIERRE + RALEIGH + RICHMOND + SACRAMENTO + SALEM + SANTA + FE + SPRINGFIELD + TRENTON = TALLAHASSEE
(Solve this one in base 16.)
51.2.1  **Doubly True – 1**  by Andrzej Bartz, Fuerth, Germany

\[ \sqrt{2025} + \sqrt{1369} = 407 - 325 \]

51.2.2  **Doubly True – 2**  by Andrzej Bartz, Fuerth, Germany

\[ (204 + 204)^2 + (136 - 459)^2 = (459)^2 + (204)^2 + (136)^2 \]

51.2.3  **Up In Smoke**  by Andrzej Bartz, Fuerth, Germany

\[ 1 \times 240023 \times A60 = 47 \times 7669 \times 860 \]

51.2.4  **Worldwide Cruise – 1**  by Paul Boymel, Potomac, Maryland

\[ 6484 \times 10935 = 70902540 \]

51.2.5  **Worldwide Cruise – 2**  by Paul Boymel, Potomac, Maryland

\[ 4025 \times 9406 = 37859150 \]

51.2.6  **A Capital Idea**  by Frank Mrazik, Montreal, Quebec

\[ 739 + 67879 + c8407816 + 8ee84f106 + c38a1967fe + cfcfab + b96 + 2f0e96 + 38a7dfab + 3919e8 + 18e60e5 + 10ecf1e + 28b06fe + 409aa9 + a819053 + a0c32feb + 68ca829e7f + 68192 + 68e78 + d9 + 64a0e5d091b + 7a9e7fe = 78118386699 \]