

Alphametics (cryptarithms)

All these alphametics were (re)discovered by me during my schooldays and student days (the period 1970-75, approximately). The asterisked* ones were used, with my permission, by J.A.H. (Jim) Hunter in his column that appeared in the *Eastern Daily Press* and elsewhere. In some cases Jim Hunter reworded them for publication. Some of the alphametics with mathematical themes appeared in *Eureka*.

All are believed to have unique solutions in base 10, with each letter representing a different digit and no leading zeroes.

1. RISE + RISE + RISE = SIRE.*
2. ONE + ONE = TWO and TWO + TWO + NOT = ALL (simultaneous alphametics).
3. MAN + HAD = MINI.
4. EAT + EAT + EAT = BEET.
5. SIP + SIP = NIPS.*
6. HATE + HATE + WET = WHEAT.*
7. TNT + TNT + A = BANG.*
8. FEW + FEW + HAVE = SAABS.
9. BAD + LAD + HAD = BALL.
10. ONE + ONE + ONE + NOT = TWO. (Due to Jonathan Wortley.)
11. PET + WET + YET = WELL.* (A unique solution for WELL.)
12. DRIVE + DRIVE = HITHER.
13. AMOS + SOME = MONEY.
14. TNT + TNT + TNT = DIN.
15. POP + POP = CORK.
16. BAN + SODA + BAN = HOOCH.*
17. FIRE + FIRE = RISES.
18. RISE + RISE + RISE = PRICE.
19. FIVE + FIVE = EVEN. (Of course FIVE is really ODD!)
20. FORTY + TEN + TEN = SIXTY. (I was not the first to find this.)
21. AN + EASY + EASY + EASY = TEASE.
22. MAN + WIN = MINI.

23. BOSS + BOSS + BOSS + BOSS = ORDER.
24. BOOBS + BOOBS = ERROR.
25. NEVER + NEVER + NEVER = STRIVE.
26. RACE + RACE = THERE.
27. LAD + LAD = ADD.
28. A + GAS + GAS = BANG.
29. MELON + MELON + MELON = LEMON. (Due to my mother.)
30. SON + SON + ON = MOON.
31. FEAR + FEAR = SCARE.
32. FEARS + FEARS + WERE = SCARES.*
33. HELLS + HELLS + HELLS = ANGELS.
34. TOO + TOO + TOO + TOO = HOT.
35. FORCES + FORCES + FORCES = STRESS.
36. HAMLET * A = TRAGEDY.
37. DESERT + DESERT = SAHARA.
38. A + SMALL + SMALL = TUSSLE.
39. BARLEY + BARLEY = HARVEST.
40. EGGS + EGGS + EGGS = HATCH.
41. BOW + WOW = WOOF.
42. WOOL + WOOL = LAMBS.
43. ACT * 75 = PARTS.
44. ICE * ICE = IGLOO.
45. APPLE + APPLE + HELPS = NEWTON.
46. A + BARLEY + BARLEY = HARVEST.
47. A + TEASE + TEASE + TO + SOLVE = PLEASE.
48. EFFORT + EFFORT + FOR + AN = ATTEMPT.
49. TOBEOR + NOTTO + BE = HAMLET.
50. EUREKA + EUREKA + AN = ANSWER.
51. NOISY + BELLS + LOUDLY + LOUDLY = SOUNDED.
52. LIES + LIES + ALL = FALSE.

53. EAT + EAT + EAT = LESS.
54. NEON + NEON + NEON = INERT.
55. EGG * EGG = OVOID.
56. INERT + INERT + NOT = ACTIVE.
57. LATEST + LATEST + IS = RECENT.
58. GREEK + GREEK + WORD = EUREKA.
59. WAGNER + WAGNER + WROTE = OPERAS.
60. DETECT + DETECT + A = MURDER.
61. DO * THIS = TEASER.
62. DEALER + SELLER + AND = PARTNER.
63. KLEIN + KLEIN = BOTTLE.
64. TEAR + TEAR + A = PAPER.
65. SEE + SEE + BY = EYES.
66. HIT + HIT = MISS.
67. LOOK + LOOK + LOOK = DAVID.
68. EAT + EAT + EAT = CAKE.
69. EULER + EULER = FERMAT.
70. A + LEMMA + LEMMA = GAUSS.
71. PIERRE + PIERRE = FERMAT.

Most of these have been checked using an excellent [alphametic solving program](#) due to Truman Collins.

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