## Cryptarithms

Overview: Cryptarithms are my absolute favorite type of brain workout. The basic idea is that the letters of a word really represent numbers, and you can figure out which letter equals which number by pure logic and a little guesswork.

Cryptarithms are a puzzle where the digits are replaced by letters or symbols.
When the numbers are replaced by letters of the alphabet and it spells something readable, it's called Alphametics.
Rules: Each letter represents a unique digit, numbers may not start with zero, and the solution is unique. A few weird things to remember are: stars substitute for any digit, and are not related to each other, dots stand for a decimal point, and lower case ' $x$ ' means multiplication.

## Exercises:

| DAD | SHORT |  |
| :---: | :---: | :---: |
| HAD |  | NINA |
| A | SPOT | +SING |
| $+\mathrm{BAD}$ | A | AGAIN |
| HEAD | + TOP |  |
|  | GHost | THY |
| ОООН |  | + HAY |
| $\pm$ +FOOD | MEMO | MYTH |
| FIGHT | $\underline{+ \text { FROM }}$ |  |
|  | HOMER | STARS |
| PEAR |  | +RATE |
| $\pm$ APPLE | HERE | TREAT |
| GRAPE | + SHE |  |
|  | COMES |  |
| NO |  |  |
| GUN |  |  |
| + + ${ }^{\text {O }}$ | OLD |  |
| HUNT | OLD |  |
| THIS | +OLD |  |
| +SIZE | GOOD |  |

