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Bright Air, Brilliant Fire: On the Matter of the Mind — Gerald M. Edelman. A neuroscientist and Nobel laureate explores how consciousness and thought emerged in the evolution of the human brain. He concludes that individuality must lie at the very center of what it means to have a mind, that no creature is born value-free, and that no physical theory of the universe can claim to be a "theory of everything" without including an account of how the brain gives rise to the mind. Originally published in hardcover in 1992. Basic, 1993, 280 p., paperback, \$15.00.

Dead Reckoning: Calculating Without Instruments — Ronald W. Doerfler. People lose something when they come to rely on a machine for all their calculations, Doerfler contends. He claims he's not a "lightning computer," someone who can calculate large numbers very quickly without the use of pencil, paper, or instruments; he simply enjoys numbers and the feeling of independence from his calculator. For others like himself, he outlines algorithms for quickly calculating basic and some more intricate mathematical problems such as roots and trigonometric, logarithmic, and exponential values. Gulf Pub, 1993, 182 p., paperback, \$17.95.

Zero to Lazy Eight: The Romance of Numbers — Alexander Humez, Nicholas Humez, Joseph Maguire. This journey through the lore of numerical sayings and puns unveils the stories behind such expressions as "take five," "dressed to the nines," and "behind the eight ball." Each chapter explores the significance of the number of the chapter, from zero to 13, with a final section devoted to infinity. Many of the expressions are rich in mathematical heritage. The authors also address the role of numbers in realms as diverse as zip codes and creation myths. Both humorous and highly informative. S&S, 1993, 228 p., hard-cover, b&w illus., \$21.00.

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