ZMATH 2004e.04371
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Mathematical adventures for students and amateurs.
The Mathematical Association of America, Washington, DC (ISBN 0-88385-548-8). 302 p. (2004).

How should you encode a message to an extraterrestrial? Waht do frogs and powers of 2 have in common? How many faces does the Stella Octangula have? Is a plane figure of constant diameter a circle, and what has this to do with NASA? 210 = 5 x 6 x 7 = 14 x 15, so just how many numbers can be the product of both two and of three consecutive integers? Is there any such thing as a truly correct map? What patterns are possible in juggling? These questions and many others are answered in the book. It is a partial record of the Bay Area Math Adventures (BAMA), a lecture series for high school students hosted by San Jose State and Santa Clara Universities in the San Francisco Bay area. These lectures are aimed primarily at bright high school students, the emphasis on bright, and as a result, the mathematics in some cases is far from what one would expect to see in talks at this level. There are serious mathematical issues addressed here.

Classification: U95 A25