1046-Z1-909David T. Atkinson* (datkinsn@olivet.edu), Department of Mathematics, Olivet Nazarene
University, Bourbonnais, IL 60914. Chances of a Cruise Ship Birthday Match.

What are the chances that during a cruise of k days there will be one or more matching birthdays among the n passengers? A solution of this problem, accesible to undergraduate mathematics majors, will be presented. Also for selected values of k, we will note the minimum value of n for which the probability of a match is at least 50%. (Received September 12, 2008)