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In the 1990s Bernhard and Jablan independently proposed a method for computing the unknotting number of a knot, using minimal crossing number diagrams and crossing changes. This method has proved to have a remarkable track record of accurately predicting the unknotting numbers of knots, but in recent work we showed that it cannot have 100 percent accuracy. We will discuss this result, as well as what the data amassed in searching for counterexamples can say about other open problems on unknotting number. (Received March 01, 2020)