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Psychology students' estimation of association.

Tso, Tai-Yih (ed.), Proceedings of the 36th conference of the International Group for the Psychology of Mathematics Education "Opportunities to learn in mathematics education", PME 36, Taipei, Taiwan, July 18–22, 2012, Vol. 2. Taipei: National Taiwan Normal University. 51-58 (2012).

Summary: Contingency tables are useful for practitioners in psychology and health sciences, since providing a diagnostic requires an association judgment in a contingency table. In this research we analysed the perception of association in contingency tables and the accuracy in the estimation of its strength in a sample of 414 psychology students in three different Spanish universities. Results show a good perception and estimation of association in both direct and inverse association, misperception of independence and the effect of illusory correlation. Performance is similar in the three universities, and better than reported in a previous study with high-school students.

Classification: K45 K75 K55 D75

Keywords: contingency tables; estimation of association; non-mathematics majors; statistics