

ZMATH 2016f.01266

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What can student work show? From playing a game to exploring probability theory.

Aust. Prim. Math. Classr. 21, No. 2, 32-35 (2016).

Summary: Rich learning tasks embedded within a familiar context allow students to work like mathematicians while making sense of the mathematics. This article demonstrates how 11–12 year-old students were able to employ all of the proficiency strands while demonstrating a deep understanding of some of the “big ideas” of probabilistic thinking. (ERIC)

Classification: K50 C30 D30

Keywords: probability; sense making; deep understanding; probabilistic thinking