

ZMATH 2011f.00212

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A task that elicits reasoning: A dual analysis.

J. Math. Behav. 29, No. 2, 76-85 (2010).

Summary: This paper reports on the forms of reasoning elicited as fourth grade students in a suburban district and sixth grade students in an urban district worked on similar tasks involving reasoning with the use of Cuisenaire rods. Analysis of the two data sets shows similarities in the reasoning used by both groups of students on specific tasks, and the tendency of a particular task to elicit numerous forms of reasoning in both groups of students. Attributes of that task and ways that those attributes can be replicated in other domains may have implications in the teaching of early reasoning. (Contains 4 figures.) (ERIC)

Classification: C32 C33 E42 E43

Keywords: grade 6; grade 4; task analysis; thinking skills; data analysis; teaching methods; evaluation methods; abstract reasoning; justification; fractions

doi:10.1016/j.jmathb.2010.02.002