

**ZMATH 1995d.02508**

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**Expanding student's conceptions of the arithmetic mean.**

Sch. Sci. Math. 95, No. 3, 114-117 (1995).

This article presents four activities designed to help elementary and middle school students develop a concept of mean. To bring about a desirable level of understanding, all computational formulae and algorithms in mathematics should be preceded by experience emphasizing conceptual understanding. Since that is not the normal instructional sequence for the arithmetic mean, the activities presented in the article assume previous exposure to the computational algorithm for the arithmetic mean.

*Classification:* K40

doi:10.1111/j.1949-8594.1995.tb15741.x