1035-Z1-1896 **Jerome Dancis\*** (jnd@math.umd.edu), 5-H Laurel Hill Road, Greenbelt, MD 20770. 1. NCTM Focal Points for K-8 avoid 2-step Arithmetic Word Problems with Math content. 2. K-8 Math textbooks avoid Word Problems with Reading content.

1. In 2006, National Council of Teachers of Mathematics (NCTM) (the professional society of school mathematics teachers) brought out its "Curriculum Focal Points for Mathematics in PreK - Grade 8". (www.nctm.org/focalpoints/intro.asp)

Problem 1. The price of a loaf of bread is two dollars. The price of a large jar of milk is two dollars. Johnny buys one loaf of bread and one large jar of milk. He gives the cashier a five-dollar bill. What is the change? Two-step problems like Problem 1 are NOT mentioned until Grade 6.

I will discuss my "Grade by Grade Description of Appropriate Arithmetic Word Problems". This list is Appendix B at www.ed.gov/about/bdscomm/list/mathpanel/5th-meeting/presentations/dancis-jerome.pdf.

I suggested that the Arithmetic word problems 6-12, therein, be included in the NCTM Curriculum Focal Points. Those types of problems are NOT listed for any grade.

2. K-8 Math textbooks avoid Word Problems with Reading content. In a middle school Math book, I read: "Three divided by six" can be directly translated into  $3 \div 6$ .

But there was no instruction for "three divides six", which does NOT directly translate into  $6 \div 3$ , since the 3 and the 6 trade places. Also no problems like "three boys divide six pies". (Received September 20, 2007)