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## Assessing Multiplicative Thinking Using Rich Tasks

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*Recent research has identified multiplicative thinking as a major barrier to students' mathematical progress in the middle years of schooling. New approaches to assessment are needed to inform more targeted teaching and improve student numeracy outcomes at this level. The purpose of this paper is to describe the processes involved in developing a range of rich assessment tasks to evaluate students' multiplicative thinking in Years 4 to 8. Key concepts used as a basis for designing the tasks, as well as the tasks, scoring rubrics, and assessment protocols used to collect data from just under 3500 students will be illustrated, together with sample student responses.*

### Background:

The material presented in this paper is drawn from a recently completed research project aimed at scaffolding numeracy learning in the middle years of schooling<sup>1</sup>. The project was prompted by the results of an earlier study which indicated that many students in Years 5 to 9 have difficulty with what might broadly be described as multiplicative thinking. That is, thinking that is characterised by

- (i) a capacity to work flexibly and efficiently with an extended range of numbers (for example, larger whole numbers, decimals, common fractions, and/or per cent);
- (ii) an ability to recognise and solve a range of problems involving multiplication or division including direct and indirect proportion; and
- (iii) the means to communicate this effectively in a variety of ways (for example, words, diagrams, symbolic expressions, and written algorithms).

In particular, the results suggest that while most students are able to solve multiplication problems involving relatively small whole numbers, they rely on additive strategies to solve more complex multiplicative problems involving larger whole numbers, rational numbers, and/or situations not easily modelled in terms of equal groups (Siemon & Virgona, 2001). This suggests that the transition from additive to multiplicative thinking is nowhere near as smooth or as straightforward as most curriculum documents seem to imply, and that access to multiplicative thinking, as it is described here, represents a real and persistent barrier to many students' mathematical progress in the middle years of schooling.

This observation is supported by the literature more generally. For example, there is a considerable body of research pointing to the difficulties students experience with multiplication and division (Mulligan & Mitchelmore, 1997; Anghileri, 1999), and the relatively long period of time needed to develop these ideas (Clark & Kamii, 1996; Sullivan, Clarke, Cheeseman & Mulligan, 2001). Student's difficulties with rational number and proportional reasoning have also been well documented (for example, Hart, 1981; Harel & Confrey, 1994; Lamon, 1996; Baturo, 1997; Misailidou & Williams, 2003). Moreover, there is a growing body of research documenting the link between multiplicative thinking and rational number ideas (Harel & Confrey, 1994; Baturo, 1997); multiplicative thinking and spatial ideas (Battista, 1999), and the importance of both as a basis for understanding algebra (Gray & Tall, 1994). While this work contributes to a better understanding of the 'big ideas' involved, very little is specifically concerned with how these ideas relate to one another and which aspects might be needed when, to support new learning both within and

<sup>1</sup> *Scaffolding numeracy in the Middle Years – An investigation of a new assessment-guided approach to teaching mathematics using authentic assessment tasks 2003-2006*, an ARC Linkage Research Project awarded to RMIT University in collaboration with the Victorian Department of Education & Training, and the Tasmanian Department of Education

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**Albert A Gayle**



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