Addition and Subtraction Problem Situations

ACTIVE SITUATIONS

	Result Unknown	Change Addend Unknown	Start Addend Unknown	
Add-To				
Take-From				

RELATIONSHIP (NONACTIVE) SITUATIONS

	Total Unknown	One Part Unknown	Both Parts Unknown	
Part-Part-Whole				
	Difference Unknown	Greater Quantity Unknown	Lesser Quantity Unknown	
Additive Comparison				

Table References

Carpenter, T. P., Hiebert, J., & Moser, J. M. (1981). Problem structure and first-grade children's initial solution processes for simple addition and subtraction problems. *Journal for Research in Mathematics Education*, 27–39.

Heller, J. I., & Greeno, J. G. (1979). Information processing analyses of mathematical problem solving. In R. Lesh (Ed.), *Applied mathematical problem solving* (pp. 181–206). Evanston, IL: The Ohio State University.

National Governors Association Center for Best Practices and Council of Chief State School Officers. (2010). *Common Core State Standards for Mathematics*. Washington, DC: Common Core Standards Initiative.

Riley, M. S., Greeno, J. G., & Heller, J. I. (1984). Development of children's ability in arithmetic. In *Development of Children's Problem-Solving Ability in Arithmetic. No. LRDC-1984/37.* (pp. 153–196). Pittsburgh University, PA: Learning Research and Development Center, National Institute of Education.