
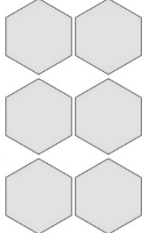





Master 79: Activity 30 Assessment

Solving Problems 4

Conceptual Understanding of Addition and Subtraction Behaviours/Strategies				
1. Student takes objects from bin, but has difficulty using them to create an addition and subtraction problem.	2. Student creates an addition problem, but has difficulty creating a subtraction problem.	3. Student creates addition and subtraction problems, but cannot use symbols and equations to represent them. "I don't know how to write a number sentence."	4. Student creates addition and subtraction problems and uses symbols and equations to represent them. $11 + 9 = ?$ "Answer is 20." $21 - ? = 13$ "Answer is 8."	
Observations/Documentation				

Addition and Subtraction Computational Behaviours/Strategies				
1. Student counts three times to add or subtract quantities. "1, 2, 3, 4, 5"  "1, 2, 3, 4, 5, 6"  "1, 2, 3, ..., 9, 10, 11"	2. Student guesses and then counts on or back to add or subtract quantities to check. Guess 7: 13, 14, 15, 16, 17, 18, 19 "Not enough."	3. Student counts on or back to add or subtract quantities. "19, 18, 17, 16, 15, 14, 13, 12" 	4. Student uses mental strategies flexibly and accurately to add or subtract quantities. "I know $10 + 10$ is 20. So, $10 + 11$ is 1 more, or 21."	
Observations/Documentation				