## Table 1 Common addition and subtraction situations ${ }^{1}$



K: Problem types to be mastered by the end of the Kindergarten year.
1st: Problem types to be mastered by the end of the First Grade year, including problem types from the previous year(s). However, First Grade students should have experiences with all 12 problem types.
2nd: Problem types to be mastered by the end of the Second Grade year, including problem types from the previous year(s).
${ }^{1}$ Adapted from Box 2---4 of Mathematics Learning in Early Childhood, National Research Council (2009, pp. 32, 33).
${ }^{2}$ These take apart situations can be used to show all the decompositions of a given number. The associated equations, which have the total on the left of the equal sign, help children understand that the $=$ sign does not always mean makes or results in but always does mean is the same number as.
${ }^{3}$ Either addend can be unknown, so there are three variations of these problem situations. Both Addends Unknown is a productive extension of this basic situation, especially for small numbers less than or equal to 10 .
${ }^{4}$ For the Bigger Unknown or Smaller Unknown situations, one version directs the correct operation (the version using more for the bigger unknown and using less for the smaller unknown). The other versions are more difficult.

