**Standards addressed by these problems: K.OA.2, K.OA.1, K.CC.2, K.CC.3, K.CC.4, K.CC.5, K.OA.3, K.OA.4, K.OA.5, K.CC.1\***

*\*Teacher note, to address the standard the standard K.CC.1 you will need to increase your numbers so the sum will equal up to 100.*

Overall purpose of these problem types: Students will use their **understanding of counting and cardinality, operations, and algebraic reasoning (commutative property, associative property) to solve addition/subtraction problem types with numbers within 10.** You can extend the counting sequence up to 100 at the same time by changing your numbers to values up to 100. Possible problems that can be used to address are JRU, JCU, SRU, SCU, PPW-WU, and PPW-PU.

*(NOTE: Any of these problems can be used as a pre/post test or ongoing assessment of students’ understanding.)*

**JRU (Join-Result Unknown):**

Triniti has \_\_\_\_ rings. Her sister, Cori, gives her \_\_\_ more rings. How many rings does Triniti have now?

(4, 4) (4, 5)

**JCU (Join-Change Unknown)**

Matthew has \_\_\_\_ toy dinosaurs. He bought some more toy dinosaurs at Wal-Mart. Now, Matthew has \_\_\_ toy dinosaurs. How many toy dinosaurs did Matthew buy at Wal-Mart?

(2, 4) (5, 10)

**SRU (Separate-Result Unknown)**

Elliot had \_\_\_\_\_ tokens at Chuck-E-Cheese. He used \_\_\_\_\_ of his tokens to play games. How many tokens does Elliot have left?

(10, 2) (10, 3)

**SCU (Separate-Change Unknown)**

Derek had \_\_\_\_ marbles. He lost some of his marbles at recess. Now, Derek has \_\_\_\_\_ marbles left. How many marbles did Derek lose at recess?

(8, 4) (8, 3)

**PPW-WU (Part-Part-Whole, Whole Unknown)**

There were \_\_\_\_ sugar cookies and \_\_\_\_ peanut butter cookies on a plate. How many cookies were there altogether?

(3, 3) (4, 3)

**PPW-PU (Part-Part-Whole, Part Unknown)**

In Miss Melody’s preschool class there were \_\_\_\_\_ kids in her classroom. \_\_\_\_ of the kids were three years old and the rest were four years old. How many of the kids in Miss Melody’s class were four years old?

(10, 6) (7, 5)