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| **NC.2.OA.1**  **Jada’s Apples** | |
| **Domain** | Operations and Algebraic Thinking  Number and Operations in Base Ten |
| **Cluster** | Represent and solve problems involving addition & subtraction.  Use place value understanding and properties of operations to add and subtract. |
| **Standard(s)** | **NC.2.OA.1** Represent and solve addition an subtraction word problems, within 100, with unknowns in all positions, by using representations and equations with a symbol for the unknown number to represent the problem, when solving:   * One-Step problems: * Add to/Take from –Start Unknown * Compare-Bigger Unknown * Compare Smaller-Unknown * Two-Step problems involving single digits: * Add to/Take from- Change Unknown * Add to/Take from- Result Unknown   **NC.2.NBT.5** Demonstrate fluency with addition and subtraction, within 100, by:   * Flexibly using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction. * Comparing addition and subtraction strategies and explaining why they work.   Selecting an appropriate strategy in order to efficiently compute sums and differences. |
| **Materials** | SF, Pencil, Paper, counters and base ten materials available |
| **Task** | Provide materials to the student. Read the problem to the student: *Jada has some apples. 7 apples are green. 5 apples are red. 6 apples are yellow. How many apples does Jada have?* *Write an equation that represents this problem.* *Use a symbol for the unknown number.*  Once an equation is written, say: *Solve the problem and use words, numbers or pictures to explain your reasoning.* |

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| **Continuum of Understanding** | | |
| **Not Yet Proficient** | * Needs prerequisite skills |  |
| **Progressing** | * Incorrectly solves the problem. * Relies on counting as primary strategy for solving problem. * Equation is inaccurate. * Explanation is lacking in detail or non-existent. | Strategy(ies) Used:   * Counting All * Counting On * Makes Tens * Basic Facts * Creates easier or known sums * Doubles * Doubles +/- 1, 2 * Other: |
| **Meets Expectation** | * Correctly solves the problem: 18 apples * Successfully uses strategies such as making tens, creates easier or known sums, and basic facts * Equation is accurate (e.g., \* = 7 + 5 + 6) * Explanation is clear. |

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| **Standards for Mathematical Practice** |
| **1. Makes sense and perseveres in solving problems.** |
| **2. Reasons abstractly and quantitatively.** |
| **3. Constructs viable arguments and critiques the reasoning of others.** |
| **4. Models with mathematics.** |
| 5. Uses appropriate tools strategically. |
| 6. **Attends to precision.** |
| 7. Looks for and makes use of structure. |
| 8. Looks for and expresses regularity in repeated reasoning. |

Jada has some apples. 7 apples are green. 5 apples are red. 6 apples are yellow. How many apples does Jada have?

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| **Write an equation that represents this problem. Use a symbol for the unknown number.** |
| Solve the problem.  Use words, numbers or pictures to explain your reasoning.    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ apples |