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| **NC.2.OA.4****Arrays** |
| **Domain** | Operations and Algebraic ThinkingNumber and Operations in Base Ten |
| **Cluster** | Work with equal groups of objects to gain foundations for multiplication.Understand place value. |
| **Standard(s)** | **NC.2.OA.4** Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends. **NC.2.NBT.2** Count within 1000; skip-count by 5s, 10s, and 100s. |
| **Materials** | BLM- Picture of 5 by 5 array of stars, pencil, objects or counters available. |
| **Task** | Provide materials to the student. Read the problem to the student: *How many stars are in the box? Write an equation with equal addends to express the total.*  |

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| **Continuum of Understanding** |
| **Not Yet Proficient** | * Needs prerequisite skills
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| **Progressing** | * Counts by ones to determine total amount.
* If skip counts, counts by groups other than 5.
* If skip counts, counts by 5 incorrectly.
* Equation does not illustrate five groups of 5.
 | Strategy(ies) Used:* Skip Counts
* Makes Tens
* Basic Facts
* Creates easier or known sums
* Doubles
* Other:
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| **Meets Expectation** | * Equation indicates the there are five groups of 5.

 (5 + 5 + 5 + 5 + 5 = 25). * Correctly determines that there are 25 stars in the box.
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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. |

