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| **NC.3.OA.6**  **Fair Tickets** | |
| **Domain** | Operations and Algebraic Thinking |
| **Cluster** | Understand properties of multiplication and the relationship between multiplication and division. |
| **Standard(s)** | **NC.3.OA.6** Solve an unknown-factor problem, by using division strategies and/or changing it to a multiplication problem. |
| **Materials** | Activity sheet, pencils, manipulatives, white boards and dry-erase markers (optional) |
| **Task** | 1. Darien is going to the fair. His parents bought him 42 tickets. Each ride is 7 tickets. How many rides can he ride with his tickets? 2. Use your manipulatives, an array or other model to make a multiplication fact will help you find the answer. 3. Write related facts (fact family) to show all the number sentences you can use to solve or check this problem. 4. Explain how multiplication can help you solve this problem. |

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| **Rubric** | | |
| **Level I**  Not Yet | 1. **Level II** 2. Progressing | **Level III**  Meets Expectation |
| * Incorrect answer and work are given. | * Finds the correct answer, but there may be inaccuracies or incomplete justification of solution.   **OR**   * Uses partially correct work, but does not have a correct solution. | * Finds the multiplication fact   6 x 7 = 42.   * Explains that 6 7s make 42 in words or pictures. * Includes the fact family: 6 x 7= 42 7 x 6 = 42   42 *÷* 7 = 6 42 *÷* 6 = 7   * Explains connection between multiplication and division |

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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. |

**Fair Tickets**

Darien is going to the fair. His parents bought him 42 tickets. Each ride is 7 tickets. How many rides can he ride with his tickets?

Use your manipulatives, an array or other model to make a multiplication fact that will help you find the answer.

Write related facts (fact family) to show all the number sentences you can use to solve or check this problem. Explain how multiplication can help you solve this problem.