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| **Making Sandwiches- 6.NS.1** |
| **Domain** | **The Number System** |
| **Cluster** | **Apply and extend previous understandings of multiplication and division to divided fractions by fractions.** |
| **Standard(s)** | **6.NS.1** Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. For example, create a story context for (2/3) ÷ (3/4) and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that (2/3) ÷ (3/4) = 8/9 because 3/4 of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 3/4-cup servings are in 2/3 of a cup of yogurt? How wide is a rectangular strip of land with length 3/4 mi and area 1/2 square mi?. |
| **Materials** | Activity sheet |
| **Task** | **Making Sandwiches**There is sandwich meat in the refrigerator. There is 2 and 3/4 pounds of roast beef, 1 and 7/8 pounds of turkey, and 2 1/16 pounds of salami. If you must put 1/4 of a pound of meat on sandwiches, how many whole sandwiches of each type can you make? How much left over meat do you have for each type of meat?Part 2:Explain how you solved the task.  |

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| **Rubric** |
| **Level I** | 1. **Level II**
 | **Level III** |
| * Student uses inappropriate solution strategy and does not get the correct answer.
 | 1. Not Yet Proficient
* There are one or two errors.
 | Proficient in Performance * Accurately solves problem
* Part 1: Roast beef: 11 sandwiches, none leftover; Turkey: 7 sandwiches, 1/8 of a pound left; Salami: 8 sandwiches, 1/16 of a pound left.
* Part 2: The explanation is clear and accurate.
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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.** |

**Making Sandwiches**

There is sandwich meat in the refrigerator. There is 2 and 3/4 pounds of roast beef, 1 and 7/8 pounds of turkey, and 2 1/16 pounds of salami.

If you must put 1/4 of a pound of meat on sandwiches, how many whole sandwiches of each type can you make?

How much left over meat do you have for each type of meat?

Part 2:

Explain how you solved the task.