

Rational Number Story problems

Demonstrate your knowledge by giving a clear, concise solution to each problem. Be sure to include all relevant steps and justify your answer.

- Jennifer is shopping for food for her party.
 - She bought $1\frac{1}{2}$ pounds of bologna and $2\frac{1}{4}$ pounds of turkey breast. How much more turkey breast than bologna did she buy? Find the answer using two different methods.
 - If a recipe for punch calls for $\frac{1}{2}$ gallon of fruit drink, how much fruit drink will Jennifer need to make $2\frac{1}{2}$ batches of the recipe?
- A U.S. dollar bill remains in circulation about 1 year and three months. A U.S. coin is in circulation about $22\frac{1}{2}$ times longer. About how long is a coin in circulation?
- One brand of popcorn costs \$2.00 for 1 pound 9 ounces and the second brand costs \$2.10 for 1 pound 14 ounces. Which is the better buy? Why? (*Hint*: There are 16 ounces in one pound. What is the cost per ounce?)
- Find the area and the perimeter of a rectangle with a length of 5 feet and a width of $4\frac{2}{9}$ feet.