

The Number System**6.NS**

Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

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 $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $3/4$ 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?

Solve the problems below.

1.) Jacob has $1/2$ of a pizza left from dinner last night. He wants to take $1/3$ of the left over pizza to work for his lunch. How much pizza should Jacob take with him to work?

1. _____

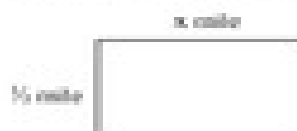
2.) Carrie bought $3 1/2$ lbs of candy. How much candy does each person get if there are 4 people to share with?

2. _____

3.) How many $1/4$ servings are in $3/8$ cups of ice cream?

3. _____

4.) Find the width of the rectangular piece of land below. The area of the land is $1/4$ square miles.



4. _____