Fourth Grade Unit 6 - Fraction Multiplication

Focus for Unit 6 - Multiply a fraction by a whole number using visual fraction models and equations to represent the problems

- Apply and extend previous understandings of multiplication to multiply a fraction by a whole number
- Understand a fraction a/b as a multiple of 1/b. For example, use a visual fraction model to represent 5/4 as the product $5 \times (1/4)$, recording the conclusion by the equation $5/4 = 5 \times (1/4)$
- Understand a multiple of a/b as a multiple of 1/b, and use this
 understanding to multiply a fraction by a whole number. For example,
 use a visual fraction model to express 3 x (2/5) as 6 x (1/5), recognizing
 this product as 6/5.
- Solve word problems involving multiplication of a fraction by a whole number by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?

Activities for home Vocabulary **Fraction:** a number that names part of a whole or part of a group Find examples of fractions around the house or Whole Number: a number with no fractional parts, no decimal parts and neighborhood. Multiply or simplify the fractions that you no negatives find **Numerator**: the top number in a fraction, which shows how many of the Use measuring cups when baking or cooking. Discuss the equal parts of the whole or group are being considered **Denominator:** the bottom number in a fraction, which shows how many amount of ½, ¼, or ¼ cups to complete a recipe that calls equal parts the set or whole has been divided into for whole cups. **Equivalent Fractions:** two or more fractions that name the same Pick or create numbers to make fractions and mixed amount numbers. Multiply or simplify using the fractions you Equal: exactly the same amount or value Quantity: how much there is of something created. **Simple Fraction**: a fraction where the numerator and the denominator Create or pick numbers to make fractions. Multiply the cannot be any smaller fractions then write a matching story problem. **Equation**: a number sentence that says two things are equal **Multiplication**: repeated addition Practice multiplication and division facts. Visual Fraction Model: representing fractions by dividing objects, shapes, divided bars or number lines