Multiply and Divide Fractions Quiz

1. Use any strategy to solve each problem. Show your work. Write the answers in simplest form. Do not leave any improper fractions.

   A. $3 \times \frac{1}{4} =$ **B.** $\frac{3}{5} \times \frac{2}{3} =$ **C.** $5 \div \frac{1}{4} =$ **D.** $\frac{1}{2} \div 4 =$

2. **A.** Use area models like fraction circle pieces or a rectangle, number lines, number sentences, drawings, or a story to show what $6 \div \frac{1}{3}$ means.

   B. Will the quotient of $6 \div \frac{1}{3}$ be greater than or less than 6? Why?

   C. Solve $6 \div \frac{1}{3}$. Include a number sentence.

3. **A.** Use area models like fraction circle pieces or a rectangle, number lines, number sentences, drawings, or a story to show what $\frac{1}{3} \times 6$ means.

   B. Will the product of $\frac{1}{3} \times 6$ be greater than or less than 6? Why?

   C. Solve $\frac{1}{3} \times 6$. Include a number sentence.

4. Here is Grace's grandmother's biscuit recipe:

<u>*Grandma's Buttermilk Biscuits*</u>   *Makes One Dozen*
- 2 cups flour
- $3\frac{1}{2}$ teaspoons baking powder
- $\frac{1}{4}$ teaspoons baking soda
- $\frac{3}{4}$ teaspoons salt
- 2 tablespoons butter
- 2 tablespoons shortening
- 1 cup of buttermilk, chilled

A. There are 2 biscuits in one serving. What fraction of a dozen is one serving?

B. How many cups of flour will Grace need to make $\frac{1}{3}$ of the recipe?

C. Grace has a container with 13 teaspoons of baking powder. Does she have enough baking powder to make 4-dozen biscuits? How do you know?

D. Find the number of teaspoons of salt that are in 4-dozen biscuits.

Name ——————————————————————————— Date ———————————

Multiply and Divide Fractions Feedback Box	Expec-tation	Check In	Comments
Represent and identify the simplest form of a fraction. [Q# 1]	E2		
Represent multiplication and division of fractions with area models, number sentences, number lines, drawings, and stories. [Q# 2A, 3A]	E3		
Multiply and divide fractions using area models, drawings, and number lines. [Q# 1, 2C, 3C, 4]	E4		
Solve word problems involving multiplica-tion and division of fractions. [Q# 4]	E5		
Explain the effects of factors less than and greater than 1 on the product and quotient of fractions. [Q#2B, 3B]	E6		
Choose appropriately from among estimation and computation strategies. [Q# 4]	E7		
Find a strategy. I choose good tools and an efficient strategy for solving the problem. [Q# 1–4]	MPE2		