Multiply Fractions

Use fraction strips, circle pieces, drawings, or number lines to solve each problem.

1. Jerome is making punch for a party. His recipe serves 6 people. He needs enough punch to serve 18 people. Help Jerome change the amounts of the ingredients in his recipe. Show how you solved each problem.

> **FRUIT PARTY PUNCH**
> **SERVES 6**
>
> $\frac{3}{4}$ cup fruit punch
>
> $\frac{1}{4}$ cup frozen strawberries
>
> $1\frac{1}{2}$ cups lemon-lime soda
>
> $\frac{1}{2}$ cups ice

A. How much fruit punch will he need?

B. How many strawberries will he need?

C. How much lemon-lime soda?

D. If 14 people have punch, can each person have a $\frac{1}{2}$ cup of punch?

Name _____ Date _____

Use fraction strips, circle pieces, drawings, or number lines to solve each problem.

2. **A.** $\frac{3}{4} \times 2 =$

   B. $2 \times 1\frac{3}{4} =$

   C. $3 \times \frac{1}{5} =$

   D. $\frac{3}{5} \times 3 =$

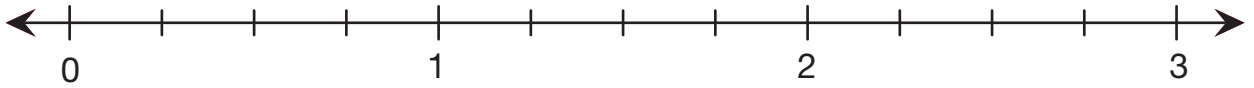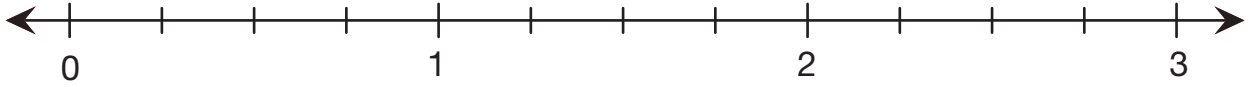   **E.** Show or tell how you solved one problem from Questions 2A–D.

3. Grace expects 8 people at her party.

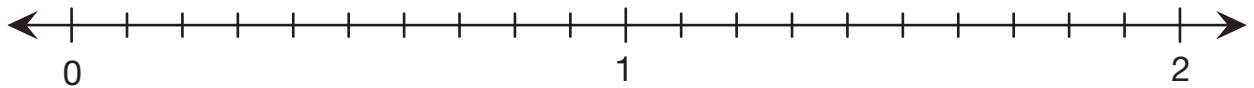   **A.** If each person at the party drinks $\frac{1}{2}$-cup of punch, how much punch will she need?

   B. If each person at the party eats $\frac{1}{6}$ of a pie, how many pies will she need?

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4. Use number lines to decide if each number sentence is true. Circle the true number sentences.

A. $3 \times \frac{3}{4} = 6 \times \frac{1}{4}$

B. $2 \times \frac{7}{10} = 2 \times \frac{1}{10} \times 7$

C. Use a different tool to show how you decided whether one number sentence above is true.

Multiply Fractions Feedback Box	Expect-ation	Check In	Comments
Represent fractions using area models (circle pieces, fraction strips, drawings) and number lines.	E1		
Multiply fractions by a whole number (e.g., $\frac{1}{3} \times 3 = 1$, $\frac{2}{3} \times 6 = \frac{1}{3} \times 6 \times 2 = 4$).	E11		