

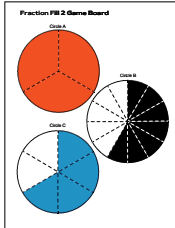
Student Guide

Workshop: Fraction Concepts

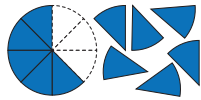
Carla and Michael are playing Fraction Fill.

- What fractions are represented in each circle on the game board?

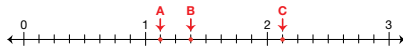
- Circle A
- Circle B
- Circle C



- Michael spins $\frac{5}{6}$. Write a number sentence to show how he can represent $\frac{5}{6}$ with fraction circle pieces.
 - Show a different way to represent $\frac{5}{6}$ with circle pieces using two or more different colors. Write a number sentence that matches this representation.
- Carla says, "I think $\frac{4}{5} = \frac{5}{6}$ because 4 is one less than 5 and 5 is one less than 6." Do you agree or disagree? Why?
- The eighth circle looks like this and Michael spins $\frac{5}{8}$. "Now I have eleven eighths."
 - Write eleven-eighths as an improper fraction.
 - Write eleven-eighths as a mixed number.



- Which point shows eleven-eighths on the number line?



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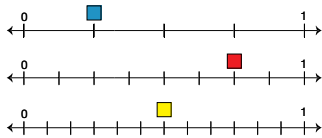
Workshop: Fraction Concepts (SG pp. 80–81)
Questions 1–8

- $\frac{3}{3}$ or 1
 - $\frac{7}{12}$
 - $\frac{4}{6}$
- Possible response: 5 aqua pieces;
 $5 \times \frac{1}{6} = \frac{5}{6}$ or $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{5}{6}$
 - Possible response: 3 aqua pieces and 4 black pieces; $\frac{3}{6} + \frac{4}{12} = \frac{5}{6}$
- * Carla is incorrect. Possible explanation: $\frac{4}{5}$ is not equivalent to $\frac{5}{6}$ because 4 green circle pieces do not cover the same amount of the red circle as 5 aqua pieces.
- $\frac{11}{8}$
 - $1\frac{3}{8}$
- Point B
- $\frac{1}{4}$
 - $\frac{6}{8}$
 - $\frac{6}{12}$
- Possible responses: $\frac{2}{6} \times \frac{2}{2} = \frac{4}{12}$ and $\frac{2}{6} \div \frac{2}{2} = \frac{1}{3}$
- $\frac{3}{4} < \frac{7}{8}$
 - Possible response: I looked on the *Fractions on Number Lines Chart*. $\frac{3}{4}$ is closer to 0 than $\frac{7}{8}$ is. Also, if I multiply $\frac{3}{4}$ by $\frac{2}{2}$, I get an equivalent fraction of $\frac{6}{8}$. $\frac{3}{4} = \frac{6}{8}$ and $\frac{6}{8} < \frac{7}{8}$, so $\frac{3}{4} < \frac{7}{8}$.

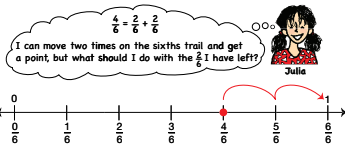
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Miguel and Julia are playing Fraction Trails.

- Part of Miguel's Fraction Trails 3 Game Board is shown below, but the labels on the number lines are missing. Name the fraction each game marker is on.
 - blue
 - red
 - yellow



- Julia spins $\frac{4}{6}$. She breaks $\frac{4}{6}$ into $\frac{2}{6} + \frac{2}{6}$. She wants to find an equivalent fraction to use instead of $\frac{4}{6}$. Name two fractions equivalent to $\frac{2}{6}$ and show or tell how you found them.



- Miguel spins $\frac{3}{4}$. Julia spins $\frac{7}{8}$.
 - Write a number sentence using $>$, $<$, or $=$ to compare the fractions.
 - Show or tell how you know your number sentence is true.

Use the Self-Check Questions and Menus on the *Show and Compare Fractions* pages of the *Student Activity Book* to choose problems that practice representing, identifying, and comparing fractions.

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*Answers and/or discussion are included in the lesson.