Name: _____

Lesson 2

Adding Fractions with Like Denominators

My Learning Goals

I can model fraction addition by joining quantities on a number line.

I can decompose a fraction to count on with unit fractions.

I can solve word problems involving addition of fractions.

Activate **Building with Bars**

> Use the fourths fraction bars to answer each question.

1 Which fraction bars do you and your partner have?

2 Determine the sum of the fractions represented by your bar and your partner's bar.

> Use the eighths fraction bars to answer each question.

3 Which fraction bars do the members of your group have?

4 Choose different pairs of fraction bars and determine their sum. Write at least two different sums.

Explore Adding Fractions on the Open Number Line

❯ Use an open number line to determine each sum.

1 $\dfrac{7}{8} + \dfrac{5}{8} = \dfrac{\boxed{}}{\boxed{}}$

⟷

2 $\dfrac{3}{5} + \dfrac{2}{5} = \dfrac{\boxed{}}{\boxed{}}$

⟷

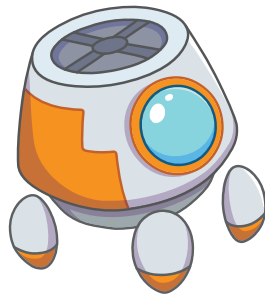3 $\dfrac{7}{12} + \dfrac{4}{12} = \dfrac{\boxed{}}{\boxed{}}$

⟷

4 $\dfrac{4}{6} + \dfrac{4}{6} = \dfrac{\boxed{}}{\boxed{}}$

⟷

Sometimes, I like to use 1 jump to add. Other times, I like to use more than 1 jump.

5 $\dfrac{1}{10} + \dfrac{5}{10} = \dfrac{\boxed{}}{\boxed{}}$

$\longleftrightarrow$

6 $\dfrac{9}{100} + \dfrac{7}{100} = \dfrac{\boxed{}}{\boxed{}}$

$\longleftrightarrow$

7 $\dfrac{8}{12} + \dfrac{3}{12} = \dfrac{\boxed{}}{\boxed{}}$

$\longleftrightarrow$

8 $\dfrac{1}{3} + \dfrac{2}{3} = \dfrac{\boxed{}}{\boxed{}}$

$\longleftrightarrow$

Explore Decomposing Fractions and Adding Fractions with Like Denominators

> Answer the question. Then, explain your reasoning.

1 Elijah says that $\frac{5}{8}$ can be written as $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$. Natalie says that $\frac{5}{8}$ can be written as $\frac{2}{8} + \frac{3}{8}$. Who is correct? Explain your reasoning.

$$\longleftrightarrow$$

> Rewrite each fraction as a sum of two or more fractions in at least 2 different ways.

2 $\frac{11}{5}$

3 $\frac{7}{4}$

4 $\frac{9}{10}$

> Determine each sum.

5 $\dfrac{7}{100} + \dfrac{8}{100} = \dfrac{\boxed{}}{\boxed{}}$

6 $\dfrac{7}{12} + \dfrac{8}{12} = \dfrac{\boxed{}}{\boxed{}}$

7 $\dfrac{5}{8} + \dfrac{4}{8} = \dfrac{\boxed{}}{\boxed{}}$

8 $\dfrac{4}{10} + \dfrac{9}{10} = \dfrac{\boxed{}}{\boxed{}}$

9 $\dfrac{2}{5} + \dfrac{1}{5} = \dfrac{\boxed{}}{\boxed{}}$

10 $\dfrac{3}{4} + \dfrac{3}{4} = \dfrac{\boxed{}}{\boxed{}}$

> Read each story and answer the question.

11 Elijah and Logan remove soil for a ground check. Elijah removes $\dfrac{3}{12}$ of the soil. Logan removes $\dfrac{6}{12}$ of the soil. How much of the soil do they remove together?

12 On Monday, a company paved $\dfrac{5}{10}$ of a road. On Tuesday, it paved $\dfrac{2}{10}$ of the road. How much of the road did the company pave in all?

My Just Right Problem

Reflect **Food Fractions**

> Read the story. Then, answer each question.
> Write an equation as part of each solution.

> Kaya ate $\frac{1}{12}$ of a casserole, Avery ate $\frac{5}{12}$ of it, and Tiago ate $\frac{6}{12}$ of it.

1 How much of the casserole did Kaya and Tiago eat?

2 Tiago says he ate more than Kaya and Avery combined. Is this correct?

3 A friend arrives late to the table. Is there any casserole left to eat?

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> Choose the problem that feels just right for you and fill in the star.