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.

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

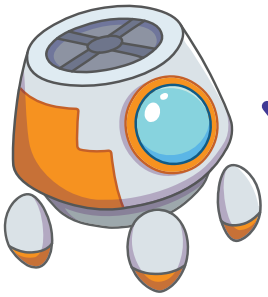
› **Use an open number line to determine each sum.**

1 $\frac{7}{8} + \frac{5}{8} = \frac{\square}{\square}$

2 $\frac{3}{5} + \frac{2}{5} = \frac{\square}{\square}$

3 $\frac{7}{12} + \frac{4}{12} = \frac{\square}{\square}$

4 $\frac{4}{6} + \frac{4}{6} = \frac{\square}{\square}$



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

5 $\frac{1}{10} + \frac{5}{10} = \frac{\square}{\square}$

6 $\frac{9}{100} + \frac{7}{100} = \frac{\square}{\square}$

7 $\frac{8}{12} + \frac{3}{12} = \frac{\square}{\square}$

8 $\frac{1}{3} + \frac{2}{3} = \frac{\square}{\square}$

Explore

Adding Fractions with Like Denominators

Model each addition expression on an open number line to determine the sum.

1. $\frac{2}{6} + \frac{3}{6} = \frac{\square}{\square}$

2. $\frac{4}{10} + \frac{5}{10} = \frac{\square}{\square}$

3. $\frac{4}{5} + \frac{3}{5} = \frac{\square}{\square}$

4. $\frac{6}{12} + \frac{7}{12} = \frac{\square}{\square}$

Determine each sum.

5 $\frac{7}{100} + \frac{8}{100} = \frac{\square}{\square}$

6 $\frac{7}{12} + \frac{8}{12} = \frac{\square}{\square}$

7 $\frac{5}{8} + \frac{4}{8} = \frac{\square}{\square}$

8 $\frac{4}{10} + \frac{9}{10} = \frac{\square}{\square}$

9 $\frac{2}{5} + \frac{1}{5} = \frac{\square}{\square}$

10 $\frac{3}{4} + \frac{3}{4} = \frac{\square}{\square}$

Read each story and answer the question.

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

12 On Monday, a company paved $\frac{5}{10}$ of a road. On Tuesday, it paved $\frac{2}{10}$ 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?

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

Assignment

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Complete each statement.

1. 2 fourths + 1 fourth = _____ fourths

2. 3 sixths + 2 sixths = _____ sixths

3. $\frac{1}{6} + \frac{3}{6} = \frac{\square}{6}$

4. $\frac{5}{8} + \frac{2}{8} = \frac{\square}{\square}$

Model each addition expression on an open number line to determine the sum.

5. $\frac{2}{12} + \frac{5}{12} = \frac{\square}{\square}$

6. $\frac{3}{8} + \frac{6}{8} = \frac{\square}{\square}$

Assignment

Make $\frac{4}{3}$ in different ways by completing each fraction equation.

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

7 $\frac{2}{3} + \frac{\square}{\square} = \frac{4}{3}$

8 $\frac{\square}{\square} + \frac{1}{3} = \frac{4}{3}$

9 $\frac{1}{3} + \frac{\square}{\square} + \frac{\square}{\square} = \frac{4}{3}$

10 $\frac{\square}{\square} + \frac{\square}{\square} + \frac{\square}{\square} + \frac{1}{3} = \frac{4}{3}$

Read each story and answer the question.

11 Alicia hikes for $\frac{6}{5}$ kilometers and stops for lunch. She then hikes another $\frac{3}{5}$ kilometer. How long was her hike?

12 An experiment calls for mixing $\frac{3}{10}$ liter of water with $\frac{9}{10}$ liter of another liquid. What is the total amount of the mixture?