



# Tier 3

## Intervention Lessons

4.NF.3c

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness for 5.NF.1:** Add and subtract mixed numbers with different denominators

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# Tier 3 Intervention Planning Guide

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

<b>Recommended Actions</b>	
<b>Beginning</b> (5 min.)	<ul style="list-style-type: none"> <li>➤ Review the learning target with the whole group</li> <li>➤ Ask each student to set a goal for the day based on their previous Quick Check Score</li> <li>➤ Have each student use a highlighter to plot their goal for the day</li> </ul>
<b>Middle</b> (15 min.)	<ul style="list-style-type: none"> <li>➤ Model solving a word problem – “I do” (<i>Sessions 1, 3 and 6 only</i>)</li> <li>➤ Guided Practice – “We do”</li> </ul> <p><b>Sessions 1 and 2:</b> Use fraction strips to add and subtract mixed numbers with like denominators  <b>Sessions 3, 4 and 5:</b> Use number lines to add and subtract mixed numbers with like denominators  <b>Sessions 6, 7 and 8:</b> Use understanding of whole numbers and fractional parts to add and subtract mixed numbers with like denominators</p>
<b>End</b> (10 min.)	<ul style="list-style-type: none"> <li>➤ Bring the students back together.</li> <li>➤ Ask students to reflect on their progress towards the learning target               <ul style="list-style-type: none"> <li>○ What did I learn today about adding and subtracting mixed numbers with the like denominators?</li> <li>○ How confident do you feel about adding and subtracting mixed numbers with the like denominators on my own? (Thumbs up, down, or sideways)</li> </ul> </li> <li>➤ Assess each student’s progress using the next <b>Quick Check</b> form</li> <li>➤ Guide students to self-correct their <b>Quick Check</b></li> <li>➤ Guide students to chart their progress in their <b>Growth Chart</b> <ul style="list-style-type: none"> <li>○ If not using Delta Math lessons, record the activity in the table</li> </ul> </li> <li>➤ Collect each student’s <b>Quick Check</b> and <b>Growth Chart</b></li> </ul>
<b>After Session 6</b>	<ul style="list-style-type: none"> <li>➤ Differentiation Options:               <ul style="list-style-type: none"> <li>○ Allow students who met the learning goal to work independently while others do the guided practice during the next session</li> <li>○ Exit students who met the learning goal for a third time</li> </ul> </li> <li>➤ Problem solve with a team to plan additional support for students who do not meet the learning goal within 8 sessions</li> </ul>

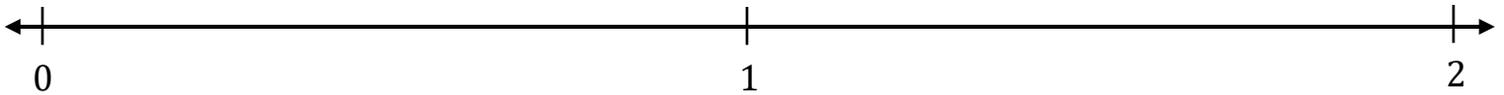


# Session 1: Modeling (I Do)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Kristin and her friend both had a string of licorice that was 1 foot long. After eating some, Kristin had  $\frac{3}{4}$  of a foot left and her friend had  $\frac{2}{4}$  of a foot left. If they combine their remaining licorice, how much do they have left altogether?



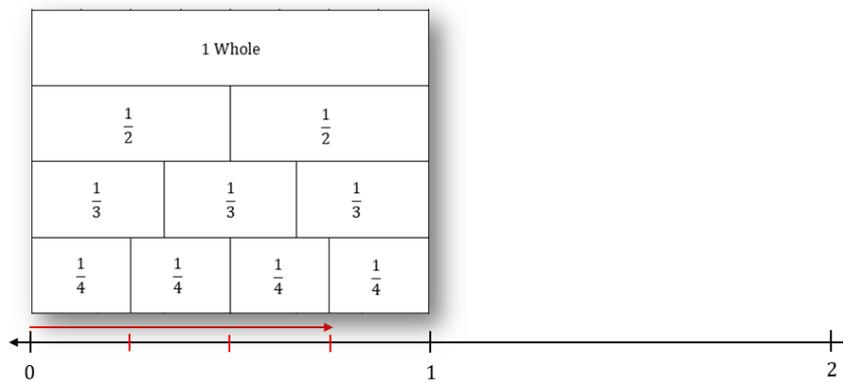
# Session 1: Modeling (I Do – Visual Support)

**Learning Target:** I will add and subtract mixed numbers with like denominators

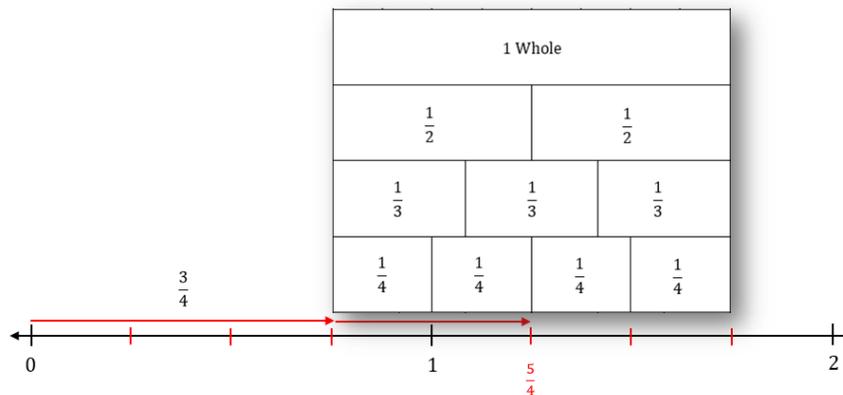
**Readiness** for adding and subtracting mixed numbers with different denominators

Kristin and her friend both had a string of licorice that was 1 foot long. After eating some, Kristin had  $\frac{3}{4}$  of a foot left and her friend had  $\frac{2}{4}$  of a foot left. If they combine their remaining licorice, how much do they have left altogether?

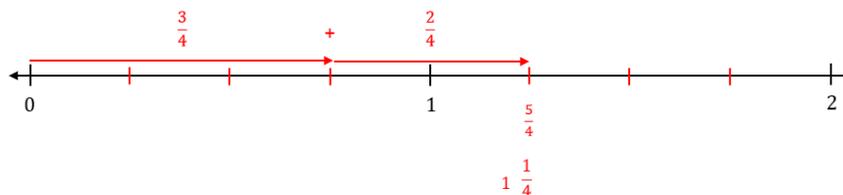
Step 1: Draw  $\frac{3}{4}$



Step 2: Draw  $\frac{2}{4}$  added to  $\frac{3}{4}$



Step 3: Find the total





# Session 1: Modeling (I Do – Teacher Notes)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Kristin and her friend both had a string of licorice that was 1 foot long. After eating some, Kristin had  $\frac{3}{4}$  of a foot left and her friend had  $\frac{2}{4}$  of a foot left. If they combine their remaining licorice, how much do they have left altogether?

**I am going to think aloud to model solving this problem.**

**Your job is to watch, listen, think and ask questions.**

**First, it is important to know what the problem is about.**

**This problem is about Kristin and her friend eating string licorice.**

**Second, I need to determine what I need to find.**

**I need to find how much they have left after each of them ate some.**

**Third, I need to determine what I know.**

**I know that they each began with 1 foot of licorice. And, after they both ate some, Kristin had  $\frac{3}{4}$  of a foot left and her friend had  $\frac{2}{4}$  of a foot left.**

**Fourth, I need to figure out what I can try.**

**I am going to try using fraction strips and a number line to add  $\frac{3}{4}$  and  $\frac{2}{4}$ .**  
(Hold up a template of fraction strips and the fraction cards.)

**I am going to fold my fraction template so that the “fourths” are visible as the bottom row...**  
(Fold the template so that four-fourths are visible at the bottom.)

**Since Kristin had 3 “fourths” of a foot left, I will use the fraction strips to mark off 4 fourths.**  
(Draw 3 marks to separate the fourths and draw a fraction arrow/vector.)

**To add 2 “fourths” of a foot to Kristin’s, I notice that the total will go past 1 whole.**  
(Place the left side of the template to the right of the fraction arrow/vector.)

**I will need to separate the second whole into fourths so that I can figure out the total.**  
(Draw 3 marks to separate the fourths between 1 and 2.)

**Now I can draw an arrow/vector to represent 2 “fourths”.**  
(Draw the fractions arrow/vector.)

**It looks like Kristin and her friend have 1 and 1 fourth feet of licorice left.**

**Last, I need to make sure that my answer makes sense.**

**I found that Kristin and her friend have 1 and 1 fourth feet of licorice left. It makes sense because I used a fraction template to represent both fractional amounts on a number line and then located the total.**

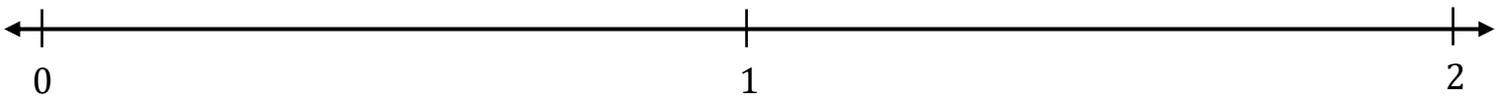
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 1: Guided Practice (We Do)

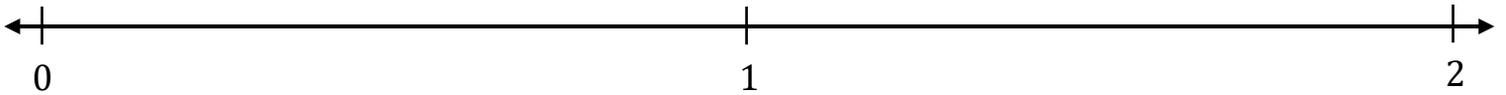
**We Do Together:** (Teacher Actions)

- Use fraction strips and number lines to add or subtract.

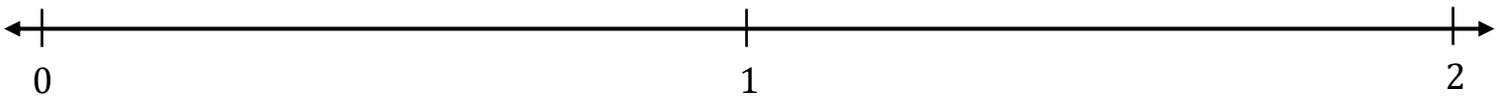
1.  $\frac{2}{3} + \frac{2}{3} =$  \_\_\_\_\_



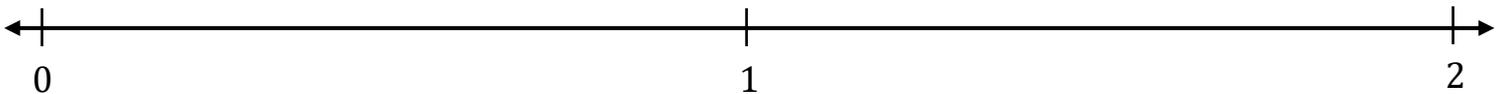
2.  $1\frac{1}{4} - \frac{3}{4} =$  \_\_\_\_\_



3.  $\frac{5}{8} + \frac{7}{8} =$  \_\_\_\_\_



4.  $1\frac{3}{6} - \frac{5}{6} =$  \_\_\_\_\_





Name \_\_\_\_\_ Date \_\_\_\_\_

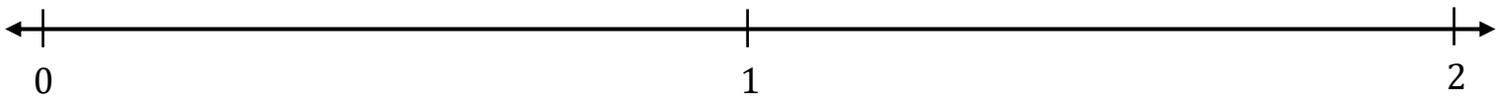
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 1: Guided Practice (We Do - Continued)

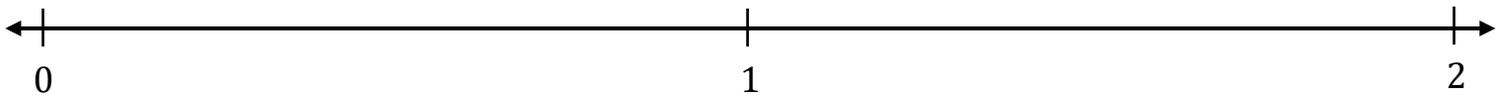
**You Do Together:** (As a class, or in small groups)

- Students take turns leading using fraction strips and number lines to add or subtract.

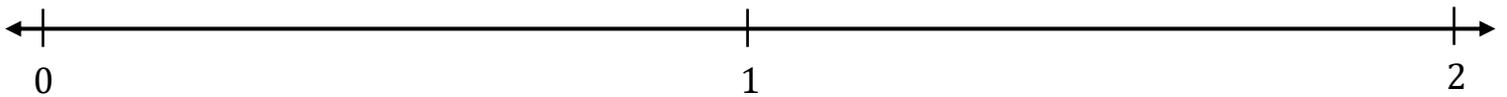
5.  $\frac{3}{4} + \frac{3}{4} =$  \_\_\_\_\_



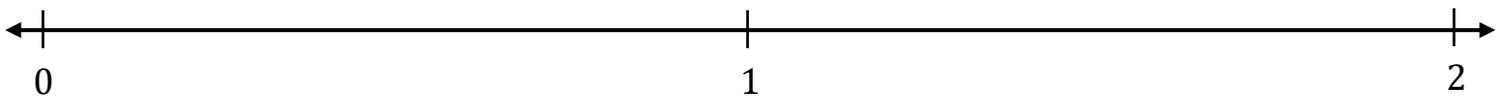
6.  $1\frac{2}{6} - \frac{5}{6} =$  \_\_\_\_\_



7.  $\frac{6}{8} + \frac{4}{8} =$  \_\_\_\_\_



8.  $1\frac{1}{3} - \frac{2}{3} =$  \_\_\_\_\_



**Learning Target:** I will add and subtract mixed numbers with like denominators

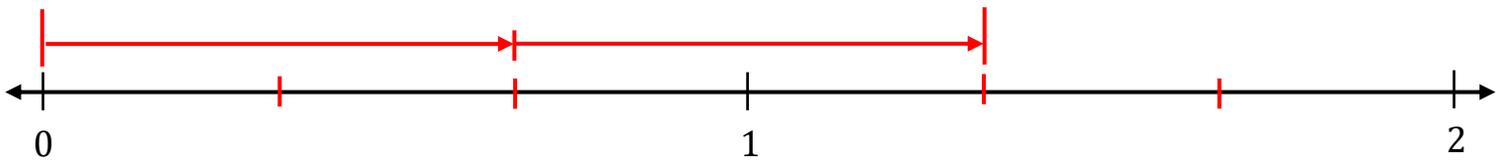
## Session 1: Guided Practice (We Do – Teacher Notes)

**We Do Together:** (Teacher Actions)

➤ Use fraction strips and number lines to add or subtract.

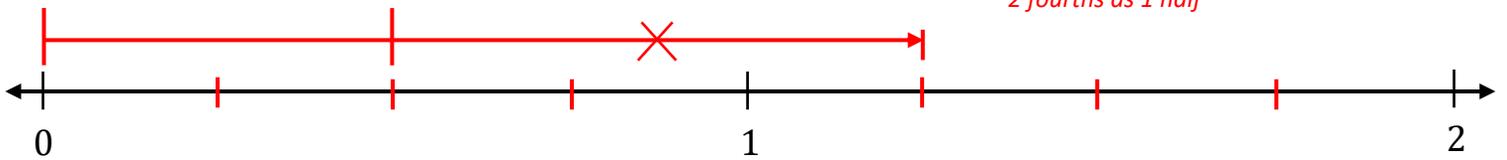
$$1. \quad \frac{2}{3} + \frac{2}{3} = \underline{\frac{4}{3}} = 1 \frac{1}{3}$$

- Draw and combine the fractional parts
- Simplify by grouping 3 of the thirds into another whole



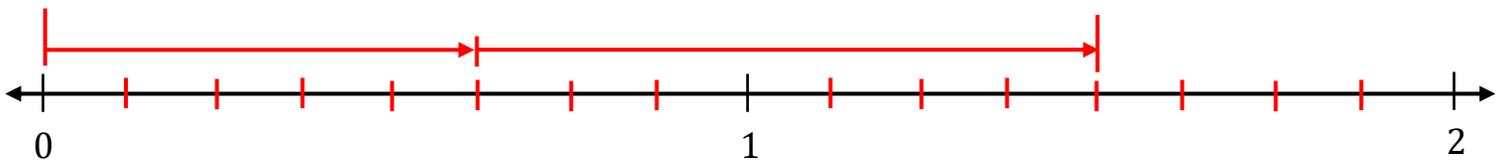
$$2. \quad 1 \frac{1}{4} - \frac{3}{4} = \underline{\frac{2}{4}} = \frac{1}{2}$$

- Draw the total
- Ungroup the whole between 0 and 1 to make more fourths
- Take away 3 fourths
- Find how much is left and simplify 2 fourths as 1 half



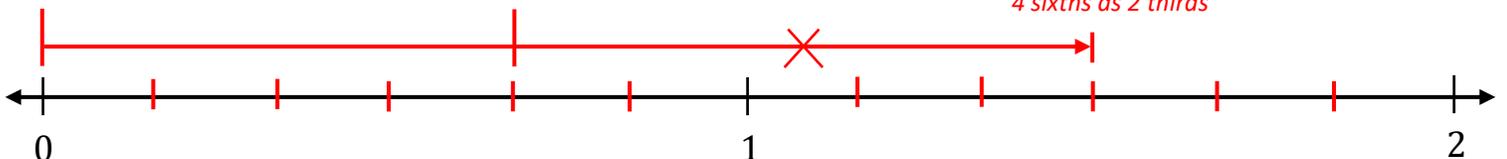
$$3. \quad \frac{5}{8} + \frac{7}{8} = \underline{\frac{12}{8}} = 1 \frac{4}{8} = 1 \frac{1}{2}$$

- Draw and combine the fractional parts
- Simplify by grouping 8 of the eighths into another whole
- Simplify 1 and 4 eighths to 1 and 1 half



$$4. \quad 1 \frac{3}{6} - \frac{5}{6} = \underline{\frac{4}{6}} = \frac{2}{3}$$

- Draw the total
- Ungroup the whole between 0 and 1 to make more sixths
- Take away 5 sixths
- Find how much is left and simplify 4 sixths as 2 thirds





# Fraction Strips (4 Sets)

**Directions:** Each student should receive two sets of strips...do not cut into individual strips. (See example on p. 9, *fold the fraction strips twice to show fractional parts of a whole.*)

1 Whole								1 Whole							
$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{6}$															
$\frac{1}{8}$															
1 Whole								1 Whole							
$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$		$\frac{1}{3}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{6}$															
$\frac{1}{8}$															



# Session 1: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form A

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{2}{3} \\ + 4 \frac{2}{3} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2 \frac{5}{7} \\ + 1 \frac{2}{7} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 6 \\ - 1 \frac{3}{4} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{1}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$$

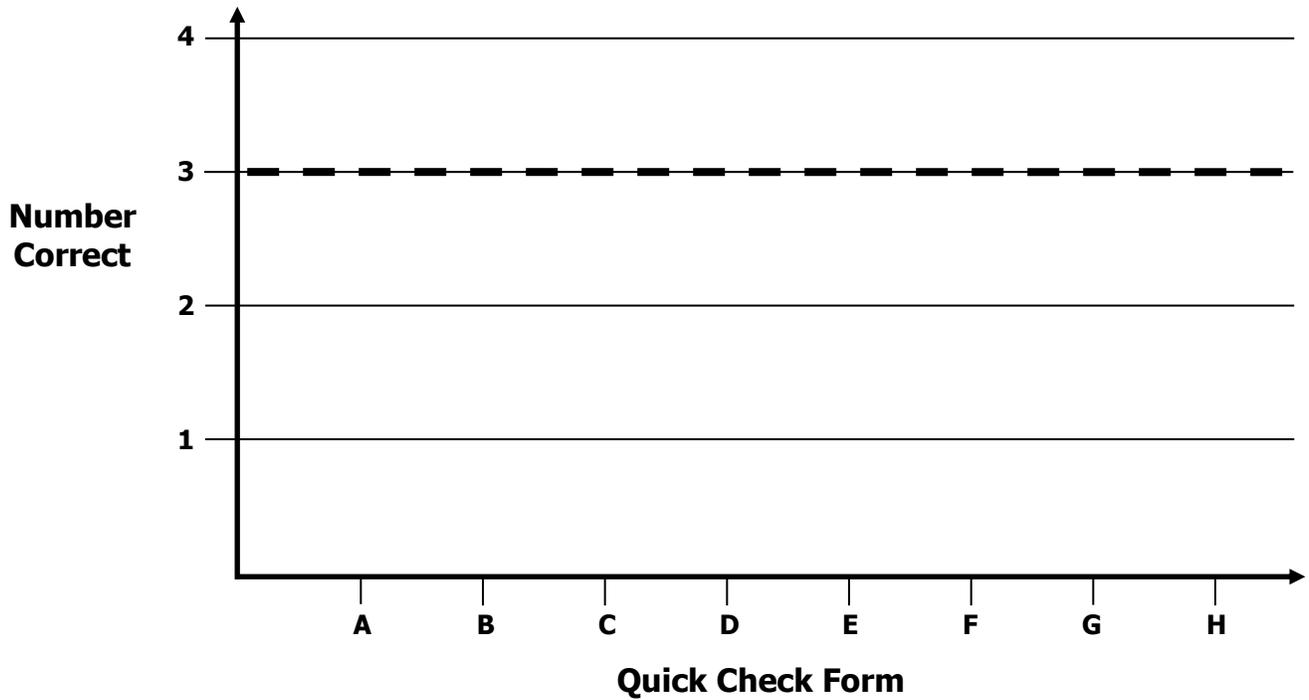


# Growth Chart

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Goal:** 3 out of 4 correct



Intervention	Date	Score
Session 1:		
Session 2:		
Session 3:		
Session 4:		
Session 5:		
Session 6:		
Session 7:		
Session 8:		

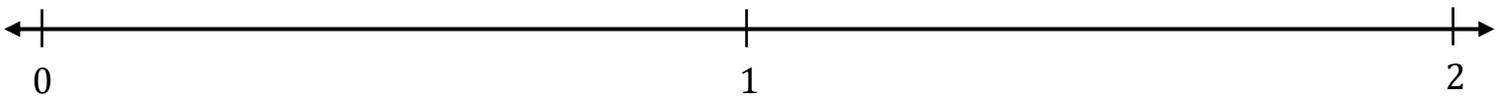
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 2: Guided Practice (We Do)

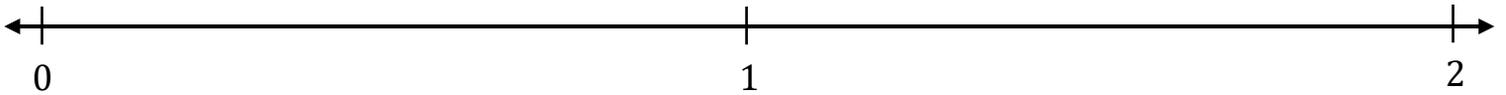
**We Do Together:** (Teacher Actions)

- Use fraction strips and number lines to add or subtract.

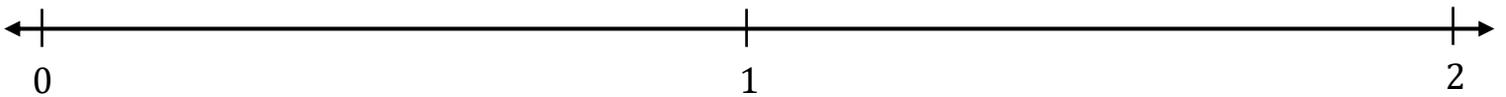
1.  $\frac{2}{4} + \frac{3}{4} =$  \_\_\_\_\_



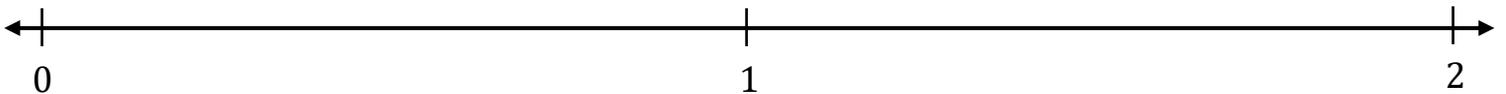
2.  $1\frac{1}{6} - \frac{3}{6} =$  \_\_\_\_\_



3.  $\frac{7}{8} + \frac{5}{8} =$  \_\_\_\_\_



4.  $1\frac{1}{4} - \frac{2}{4} =$  \_\_\_\_\_



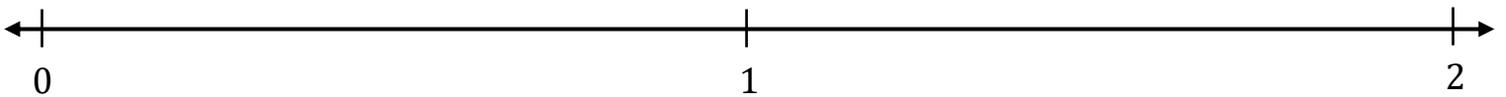
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 2: Guided Practice (We Do - Continued)

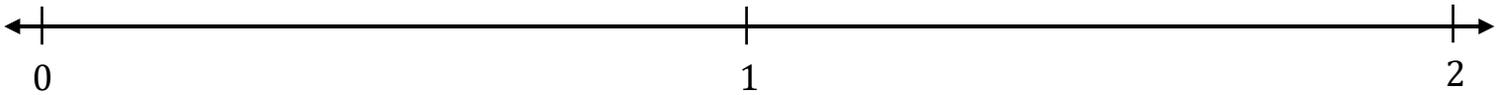
**You Do Together:** (As a class, or in small groups)

- Students take turns leading using fraction strips and number lines to add or subtract.

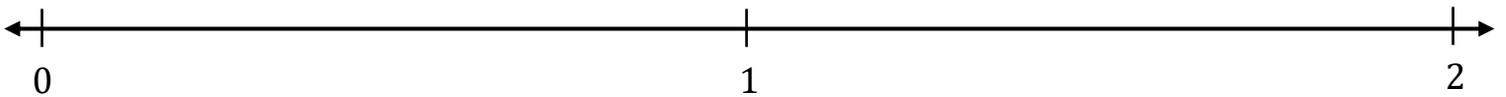
5.  $\frac{3}{4} + \frac{3}{4} =$  \_\_\_\_\_



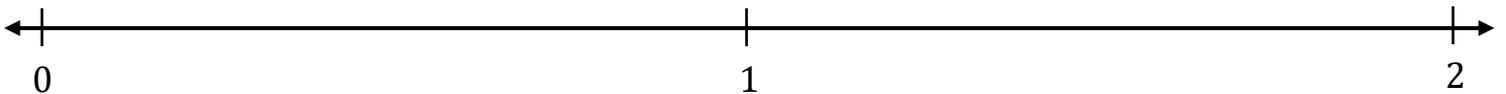
6.  $1\frac{1}{3} - \frac{2}{3} =$  \_\_\_\_\_



7.  $\frac{5}{8} + \frac{6}{8} =$  \_\_\_\_\_



8.  $1\frac{1}{6} - \frac{4}{6} =$  \_\_\_\_\_





## Session 2: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form B

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 3 \frac{2}{5} \\ + 1 \frac{3}{5} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2 \frac{5}{6} \\ + 4 \frac{2}{6} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 5 \\ - 2 \frac{1}{3} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 6 \frac{1}{4} \\ - 2 \frac{3}{4} \\ \hline \end{array}$$

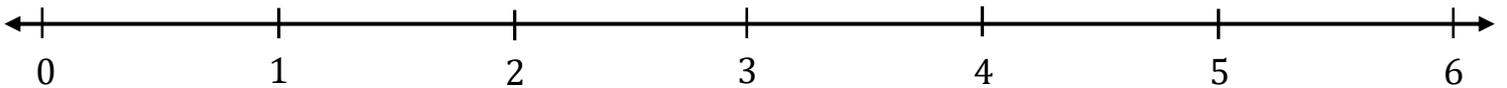


# Session 3: Modeling (I Do)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lori is preparing for a running race. As part of her practice schedule, she ran  $1\frac{2}{4}$  miles on the first day of practice and  $1\frac{3}{4}$  miles on the second day. How far did she run during her first two days of practice?





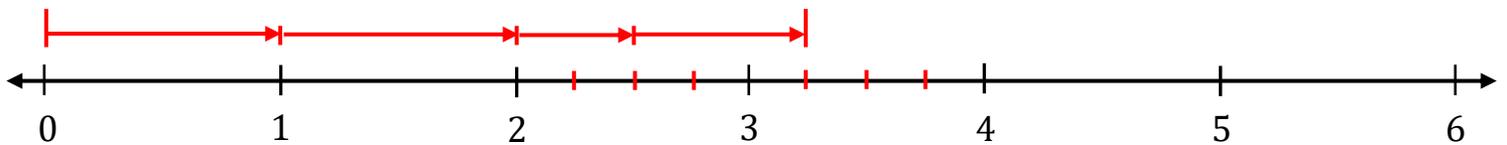
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**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lori is preparing for a running race. As part of her practice schedule, she ran  $1\frac{2}{4}$  miles on the first day of practice and  $1\frac{3}{4}$  miles on the second day. How far did she run during her first two days of practice?

$$1\frac{2}{4} + 1\frac{3}{4} = 3\frac{1}{4}$$





# Session 3: Modeling (I Do – Teacher Notes)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lori is preparing for a running race. As part of her practice schedule, she ran  $1\frac{2}{4}$  miles on the first day of practice and  $1\frac{3}{4}$  miles on the second day. How far did she run during her first two days of practice?

**I am going to think aloud to model solving this problem.**

**Your job is to watch, listen, think and ask questions.**

**First, it is important to know what the problem is about.**

**This problem is about Lori preparing for a race.**

**Second, I need to determine what I need to find.**

**I need to find how far she ran during two days of practice.**

**Third, I need to determine what I know.**

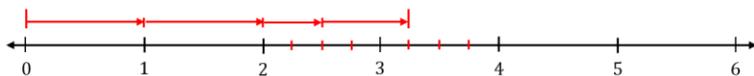
**I know that Lori ran 1 and 2-fourths of a mile on the first day and 1 and 3-fourths of a mile on the second.**

**Fourth, I need to figure out what I can try.**

$$1\frac{2}{4} + 1\frac{3}{4} = 3\frac{1}{4}$$

**I am going to try drawing both mixed numbers on a number line to add them together.**

(Write the addition problem above the number line.)



**To make this addition drawing, I am going to draw the whole numbers first and the fractional parts second.**

(Point to the whole numbers and then the fractional parts.)

**To add the whole numbers, I simply need to model one plus one on the number line.**

(Count 1 whole and draw a vertical mark above the number line, then the first arrow from 0 to 1. Count another whole and draw a vertical mark above the number line, then the second arrow from 1 to 2.)

**To add the fractional parts, I need to separate the next whole numbers on the number line into fourths.**

(Draw 3 marks on the number line to separate the whole between 2 and 3 into fourths.)

**To draw 2 “fourths” of a whole, I will draw an arrow that is 2 fourths of the whole from 2 to 3.**

(Count 2 fourths and draw a vertical mark above the number line, then the arrow.)

**I don’t have enough fourths identified to draw 3 fourths, so I will need to separate another whole into fourths.**

(Draw 3 marks to separate the whole between 3 and 4 into fourths.)

**Now I can draw 3 more “fourths” to see that Lori ran 3 and 1 fourth miles.**

(Count 3 fourths and draw a longer vertical mark above the number line, then the arrow between 2 and 2 fourths and 3 and 1 fourth.)

**Last, I need to make sure that my answer makes sense.**

**I found that Lori ran 3 and 1 fourth miles during her first two days of practice. It makes sense because I drew both mixed numbers on a number line to see that 2 whole numbers and 5 fourths is the same as 3 wholes and 1 fourth.**

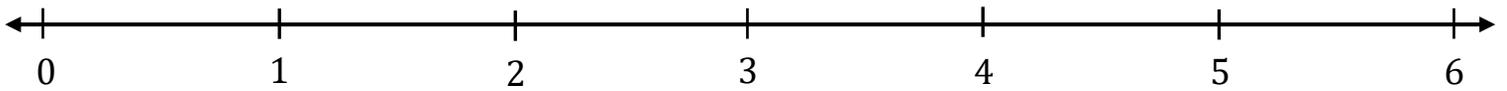
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## Session 3: Guided Practice (We Do)

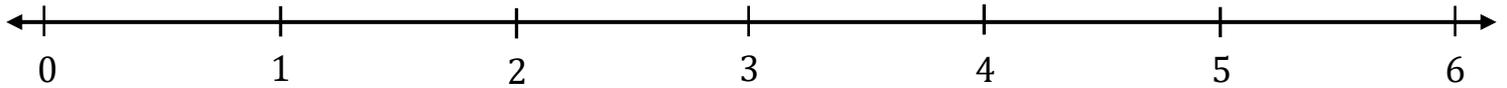
**We Do Together:** (Teacher Actions)

- Use number lines to add or subtract the mixed numbers.

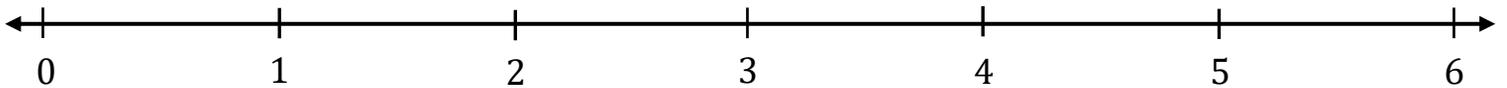
1.  $1\frac{2}{3} + 2\frac{2}{3} =$  \_\_\_\_\_



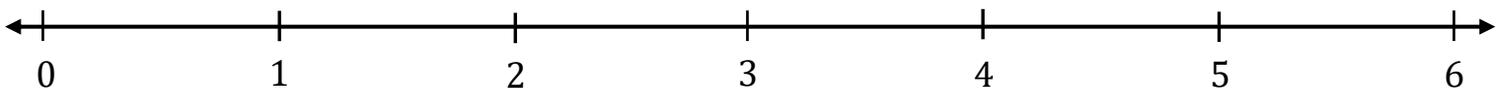
2.  $4\frac{1}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



3.  $2\frac{5}{8} + 1\frac{7}{8} =$  \_\_\_\_\_



4.  $5\frac{3}{6} - 2\frac{5}{6} =$  \_\_\_\_\_



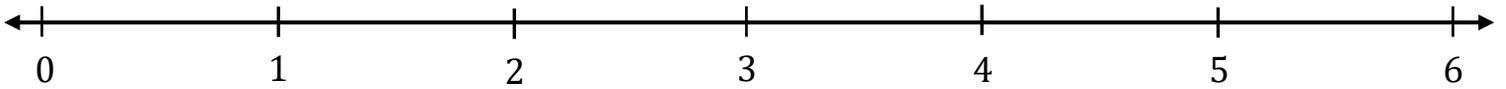
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 3: Guided Practice (We Do - Continued)

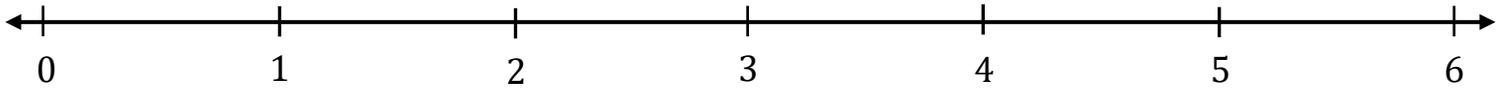
**You Do Together:** (Teacher Actions)

- Students take turns leading using number lines to add or subtract the mixed numbers.

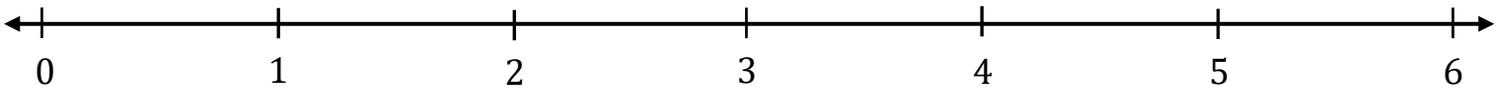
5.  $1\frac{2}{3} + 3\frac{1}{3} =$  \_\_\_\_\_



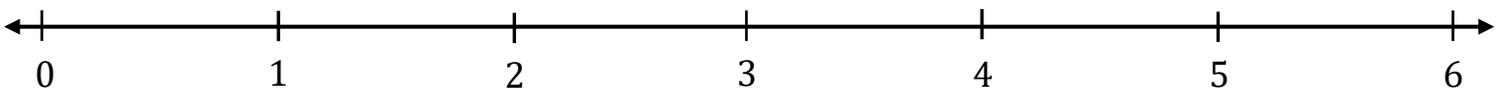
6.  $5\frac{2}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



7.  $1\frac{4}{8} + 3\frac{6}{8} =$  \_\_\_\_\_



8.  $3\frac{2}{6} - 1\frac{3}{6} =$  \_\_\_\_\_



**Learning Target:** I will add and subtract mixed numbers with like denominators

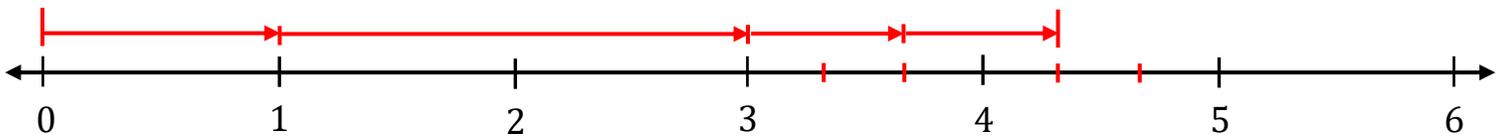
## Session 3: Guided Practice (We Do – Teacher Notes)

**We Do Together:** (Teacher Actions)

- Use number lines to add or subtract the mixed numbers.

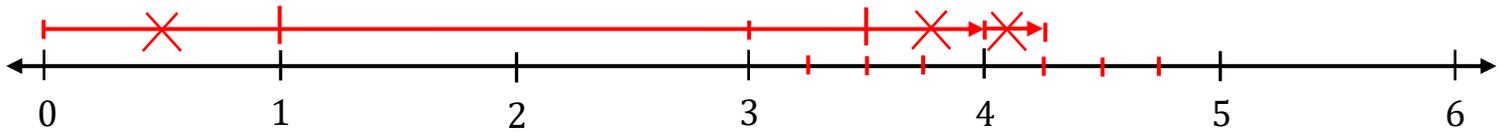
$$1. \quad 1 \frac{2}{3} + 2 \frac{2}{3} = \underline{3 \frac{4}{3}} = 4 \frac{1}{3}$$

- Draw and combine the wholes
- Draw and combine the fractional parts
- Simplify by grouping 3 of the thirds into another whole



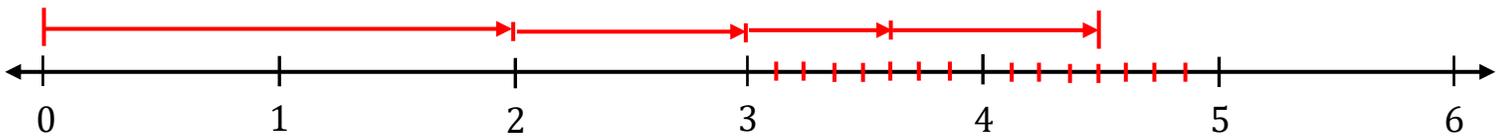
$$2. \quad 4 \frac{1}{4} - 1 \frac{3}{4} = \underline{2 \frac{2}{4}} = 2 \frac{1}{2}$$

- Draw the total
- Ungroup the whole between 3 and 4 to make more fourths
- Take away 3 fourths, then 1 whole
- Find how much is left and simplify 2 fourths as 1 half



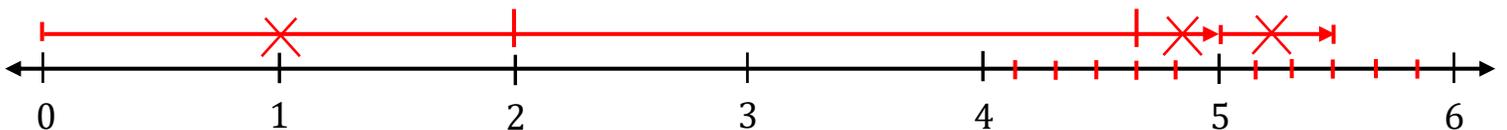
$$3. \quad 2 \frac{5}{8} + 1 \frac{7}{8} = \underline{3 \frac{12}{8}} = 4 \frac{4}{8} = 4 \frac{1}{2}$$

- Draw and combine the wholes
- Draw and combine the fractional parts
- Simplify by grouping 8 of the eighths into another whole



$$4. \quad 5 \frac{3}{6} - 2 \frac{5}{6} = \underline{2 \frac{4}{6}} = 2 \frac{2}{3}$$

- Draw the total
- Ungroup the whole between 4 and 5 to make more sixths
- Take away 5 sixths, then 2 wholes
- Find how much is left and simplify 4 sixths as 2 thirds





## Session 3: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form C

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{3}{4} \\ + 5 \frac{3}{4} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 3 \frac{5}{8} \\ + 1 \frac{3}{8} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 7 \\ - 1 \frac{3}{5} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{3}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$$

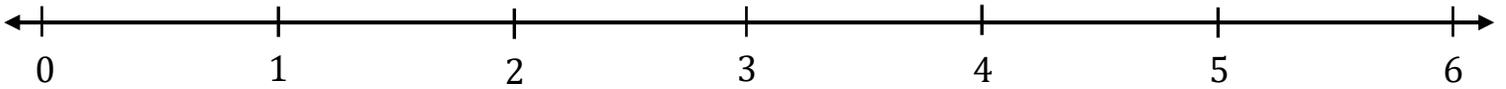
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 4: Guided Practice (We Do)

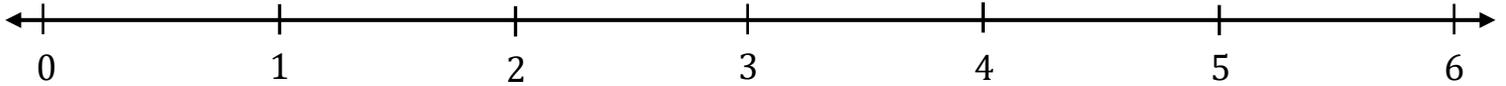
**We Do Together:** (Teacher Actions)

- Use number lines to add or subtract the mixed numbers.

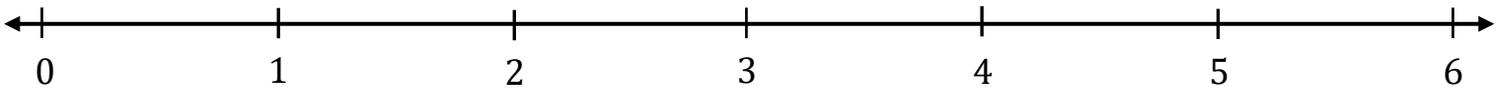
1.  $1\frac{2}{3} + 2\frac{1}{3} =$  \_\_\_\_\_



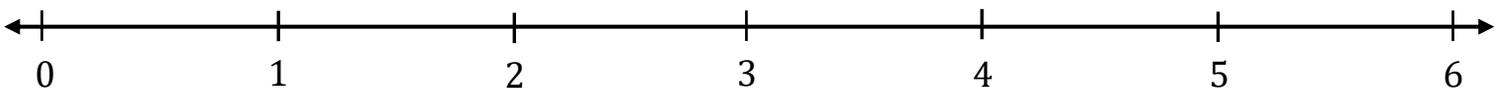
2.  $2\frac{1}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



3.  $2\frac{3}{8} + 2\frac{7}{8} =$  \_\_\_\_\_



4.  $4\frac{1}{6} - 2\frac{5}{6} =$  \_\_\_\_\_





Name \_\_\_\_\_ Date \_\_\_\_\_

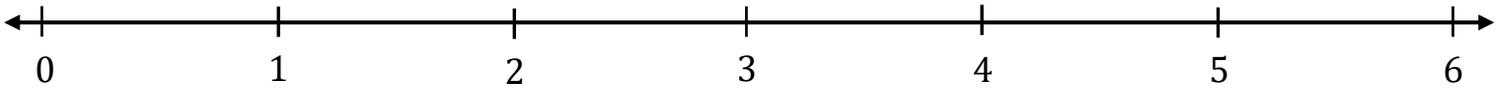
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 4: Guided Practice (We Do - Continued)

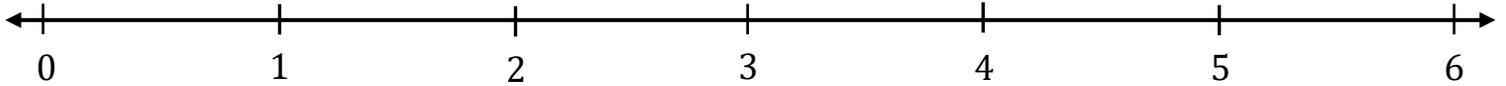
**You Do Together:** (Teacher Actions)

- Students take turns leading using number lines to add or subtract the mixed numbers.

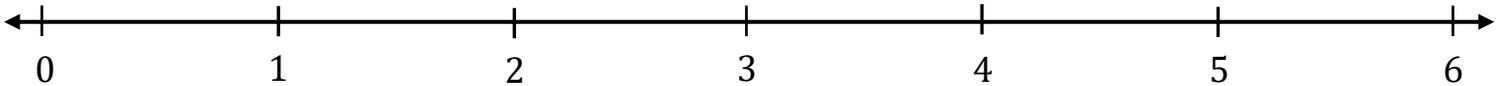
5.  $1\frac{2}{3} + 2\frac{1}{3} =$  \_\_\_\_\_



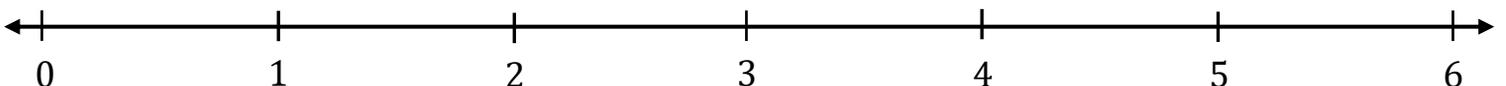
6.  $3\frac{2}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



7.  $1\frac{5}{8} + 2\frac{6}{8} =$  \_\_\_\_\_



8.  $5\frac{2}{6} - 1\frac{4}{6} =$  \_\_\_\_\_





## Session 4: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form D

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{2}{3} \\ + 4 \frac{1}{3} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2 \frac{5}{7} \\ + 1 \frac{4}{7} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 6 \\ - 3 \frac{1}{4} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{3}{8} \\ - 1 \frac{5}{8} \\ \hline \end{array}$$

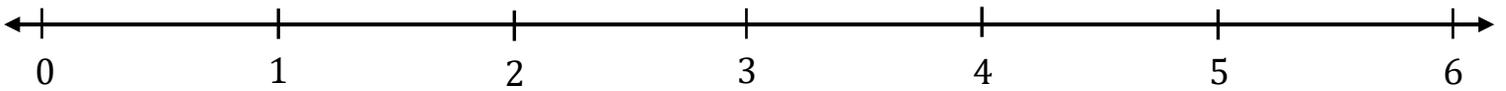
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 5: Guided Practice (We Do)

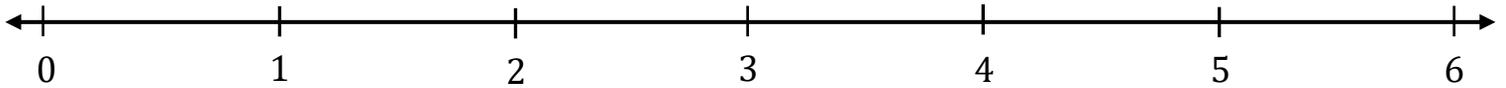
**We Do Together:** (Teacher Actions)

- Use number lines to add or subtract the mixed numbers.

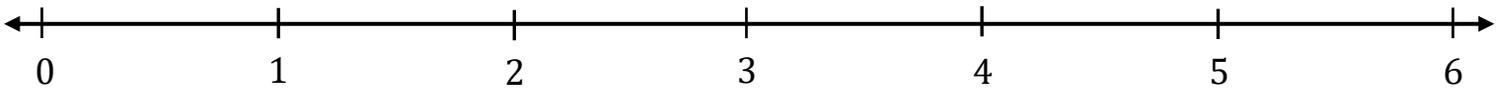
1.  $1\frac{1}{3} + 2\frac{1}{3} =$  \_\_\_\_\_



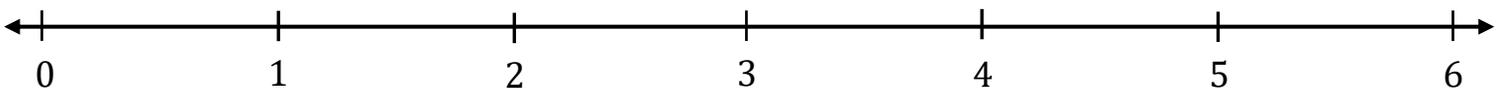
2.  $4\frac{2}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



3.  $2\frac{5}{8} + 1\frac{3}{8} =$  \_\_\_\_\_



4.  $5\frac{2}{6} - 2\frac{5}{6} =$  \_\_\_\_\_



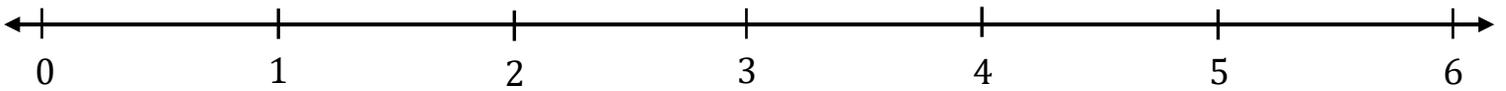
**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 5: Guided Practice (We Do - Continued)

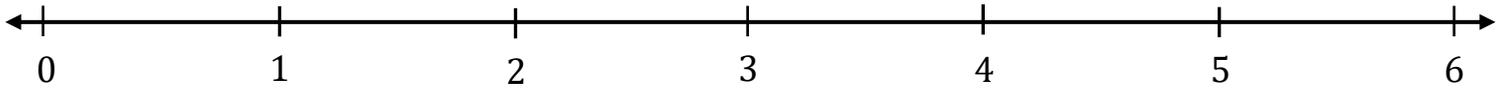
**You Do Together:** (Teacher Actions)

- Students take turns leading using number lines to add or subtract the mixed numbers.

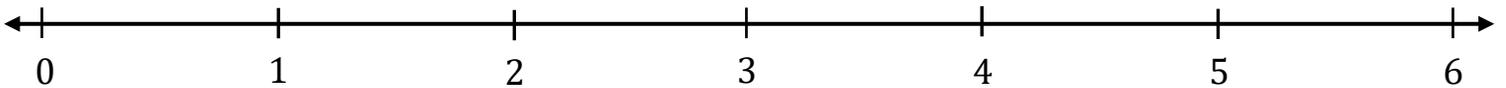
5.  $2\frac{2}{3} + 3\frac{1}{3} =$  \_\_\_\_\_



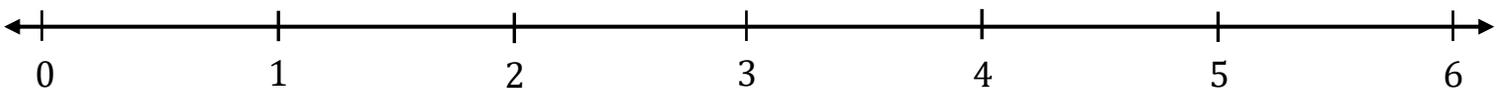
6.  $4\frac{1}{4} - 1\frac{3}{4} =$  \_\_\_\_\_



7.  $1\frac{2}{8} + 3\frac{6}{8} =$  \_\_\_\_\_



8.  $5\frac{3}{6} - 1\frac{5}{6} =$  \_\_\_\_\_





## Session 5: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form E

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{2}{3} \\ + 4 \frac{2}{3} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2 \frac{5}{7} \\ + 1 \frac{2}{7} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 6 \\ - 1 \frac{3}{4} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{1}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$$



## Session 6: Modeling (I Do)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lauren was making bracelets out of ribbon for her daughter's birthday party. She began with  $3\frac{1}{4}$  feet of ribbon and used  $1\frac{3}{4}$  feet to make the bracelets. How many feet of ribbon does she have left?



# Session 6: Modeling (I Do – Visual Support)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lauren was making bracelets out of ribbon for her daughter's birthday party. She began with  $3\frac{1}{4}$  feet of ribbon and used  $1\frac{3}{4}$  feet to make the bracelets. How many feet of ribbon does she have left?

*Feet of Ribbon*

$$\begin{array}{r} 2\frac{5}{4} \\ \cancel{1\frac{1}{4}} \\ - 1\frac{3}{4} \\ \hline 1\frac{2}{4} \end{array} = 1\frac{1}{2}$$

Diagram illustrating the subtraction of  $1\frac{3}{4}$  from  $2\frac{5}{4}$ . The result is  $1\frac{2}{4}$ , which is simplified to  $1\frac{1}{2}$ . The diagram shows the decomposition of  $1\frac{2}{4}$  into  $1\frac{1}{2}$  using arrows and labels:  $2 \times 1$  (pointing to the numerator 2) and  $2 \times 2$  (pointing to the denominator 4).



# Session 6: Modeling (I Do – Teacher Notes)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

Lauren was making bracelets out of ribbon for her daughter’s birthday party. She began with  $3\frac{1}{4}$  feet of ribbon and used  $1\frac{3}{4}$  feet to make the bracelets. How many feet of ribbon does she have left?

I am going to think aloud to model solving this problem.

Your job is to watch, listen, think and ask questions.

**First, it is important to know what the problem is about.**

This problem is about Lauren making bracelets out of ribbon for her daughter’s birthday party.

**Second, I need to determine what I need to find.**

I need to find how much ribbon she has left.

**Third, I need to determine what I know.**

I know that she began with 3 and 1 fourth feet of ribbon and used 1 and 3 fourths to make the bracelets.

**Fourth, I need to figure out what I can try.**

*Feet of Ribbon*

I am going to try using my understanding of whole numbers and fractional parts to subtract 1 and 3 fourths from 3 and 1 fourth.

(Write the label and subtraction problem.)

$$2\frac{5}{4}$$

Since I am subtracting 3 fourths and I currently only have 1 fourth, I will need to ungroup one of my wholes into 4 more fourths.

(Point to the fractional parts of each mixed number.)

$$\cancel{3}\frac{1}{4}$$

If I ungroup one of my 3 wholes, I am left with 2 wholes.

(Cross off the 3 and write the whole number “2” above it.)

$$- 1\frac{3}{4}$$

One whole ungroups into 4 fourths, so I now have 5 fourths in the fractional part.

(Cross off the 1 fourth and write 5 fourths above it.)

$$\begin{array}{r} 2 \\ \hline 1\frac{2}{4} \end{array} = 1\frac{1}{2}$$

*(Note: In the original image, arrows indicate that the 2 is derived from 2x1 and the 1/2 is derived from 2x2.)*

Now that I rewrote 3 and 1 fourth as an equivalent 2 and 5 fourths, I can subtract the “like” values.

2 wholes minus 1 whole is equal to 1 whole.

(Write the whole number 1 under the subtraction line.)

And, 5 fourths minus 3 fourths is equal to 2 fourths.

(Write the fractional part 2 fourths under the subtraction line.)

Lauren has 1 and 2 fourths feet of ribbon left which can be simplified as 1 and 1 half, since the numerator and denominator have a common factor of 2.

(Write  $= 1\frac{1}{2}$  next to the answer)

I can figure this out because 2 times 1 equals 2 and 2 times 2 equals 4, then 2 fourths is equal to 1 half

**Last, I need to make sure that my answer makes sense.**

I found that Lauren had 1 and 1 half feet of ribbon left. It makes sense because ungrouped a whole to make enough fourths, then I subtracted the whole and fourths separately to find what was left.

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 6: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use your understanding of whole numbers and fractional parts to add or subtract.

1.

$$\begin{array}{r} 1 \frac{3}{5} \\ + 2 \frac{3}{5} \\ \hline \end{array}$$

2.

$$\begin{array}{r} 4 \frac{5}{6} \\ + 1 \frac{3}{6} \\ \hline \end{array}$$

3.

$$\begin{array}{r} 6 \\ - 2 \frac{3}{4} \\ \hline \end{array}$$

4.

$$\begin{array}{r} 4 \frac{3}{8} \\ - 1 \frac{5}{8} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 6: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Take turns leading to use your understanding of whole numbers and fractional parts to add or subtract.

5.

$$\begin{array}{r} 4 \frac{3}{7} \\ + 2 \frac{3}{7} \\ \hline \end{array}$$

6.

$$\begin{array}{r} 5 \frac{2}{4} \\ + 2 \frac{3}{4} \\ \hline \end{array}$$

7.

$$\begin{array}{r} 8 \\ - 3 \frac{2}{5} \\ \hline \end{array}$$

8.

$$\begin{array}{r} 5 \frac{2}{6} \\ - 3 \frac{5}{6} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 6: Guided Practice (We Do – Teacher Notes)

**We Do Together:** (Teacher Actions)

- Use your understanding of whole numbers and fractional parts to add or subtract.

<p>1.</p> $\begin{array}{r} 1 \frac{3}{5} \\ + 2 \frac{3}{5} \\ \hline \end{array}$ $3 \frac{6}{5} = 3 + 1 + \frac{1}{5} = 4 \frac{1}{5}$	<p>2.</p> $\begin{array}{r} 4 \frac{5}{6} \\ + 1 \frac{3}{6} \\ \hline \end{array}$ $5 \frac{8}{6} = 5 + 1 + \frac{2}{6} = 6 \frac{1}{3}$
<p>3.</p> $\begin{array}{r} 5 \frac{4}{4} \\ \cancel{6} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ $3 \frac{1}{4}$	<p>4.</p> $\begin{array}{r} 2 \frac{11}{8} \\ \cancel{4} \frac{3}{8} \\ - 1 \frac{5}{8} \\ \hline \end{array}$ $1 \frac{6}{8} = 1 \frac{3}{4}$



## Session 6: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form F

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 3\frac{2}{5} \\ + 1\frac{3}{5} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2\frac{5}{6} \\ + 4\frac{2}{6} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 5 \\ - 2\frac{1}{3} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 6\frac{1}{4} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 7: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use your understanding of whole numbers and fractional parts to add or subtract.

1.

$$\begin{array}{r} 1 \frac{3}{5} \\ + 2 \frac{4}{5} \\ \hline \end{array}$$

2.

$$\begin{array}{r} 4 \frac{5}{6} \\ + 2 \frac{1}{6} \\ \hline \end{array}$$

3.

$$\begin{array}{r} 6 \\ - 2 \frac{1}{4} \\ \hline \end{array}$$

4.

$$\begin{array}{r} 4 \frac{3}{8} \\ - 2 \frac{7}{8} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 7: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Take turns leading to use your understanding of whole numbers and fractional parts to add or subtract.

5.

$$\begin{array}{r} 3\frac{4}{7} \\ + 2\frac{3}{7} \\ \hline \end{array}$$

6.

$$\begin{array}{r} 2\frac{3}{4} \\ + 3\frac{3}{4} \\ \hline \end{array}$$

7.

$$\begin{array}{r} 6 \\ - 2\frac{3}{5} \\ \hline \end{array}$$

8.

$$\begin{array}{r} 4\frac{2}{6} \\ - 3\frac{5}{6} \\ \hline \end{array}$$



## Session 7: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form G

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{3}{4} \\ + 5 \frac{3}{4} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 3 \frac{5}{8} \\ + 1 \frac{3}{8} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 7 \\ - 1 \frac{3}{5} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{3}{6} \\ - 1 \frac{4}{6} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 8: Guided Practice (We Do)

**We Do Together:** (Teacher Actions)

- Use your understanding of whole numbers and fractional parts to add or subtract.

1.

$$\begin{array}{r} 6\frac{2}{5} \\ + 2\frac{3}{5} \\ \hline \end{array}$$

2.

$$\begin{array}{r} 4\frac{5}{6} \\ + 3\frac{4}{6} \\ \hline \end{array}$$

3.

$$\begin{array}{r} 7 \\ - 1\frac{3}{4} \\ \hline \end{array}$$

4.

$$\begin{array}{r} 5\frac{1}{8} \\ - 1\frac{5}{8} \\ \hline \end{array}$$

**Learning Target:** I will add and subtract mixed numbers with like denominators

## Session 8: Guided Practice (We Do - Continued)

**You Do Together:** (As a class, or in small groups)

- Take turns leading to use your understanding of whole numbers and fractional parts to add or subtract.

5.

$$\begin{array}{r} 4 \frac{3}{7} \\ + 2 \frac{6}{7} \\ \hline \end{array}$$

6.

$$\begin{array}{r} 6 \frac{1}{4} \\ + 3 \frac{3}{4} \\ \hline \end{array}$$

7.

$$\begin{array}{r} 9 \\ - 3 \frac{2}{5} \\ \hline \end{array}$$

8.

$$\begin{array}{r} 5 \frac{3}{9} \\ - 1 \frac{5}{9} \\ \hline \end{array}$$



## Session 8: Self-Reflection

**Learning Target:** I will add and subtract mixed numbers with like denominators

Briefly discuss student responses:

- What did I learn today about adding and subtracting mixed numbers with like denominators?
  
- How confident do I feel about adding and subtracting mixed numbers with like denominators on my own?  
*(Thumbs up, down, or sideways)*



# Quick Check - Form H

Name \_\_\_\_\_ Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers.

**Directions:** Write the answer to each problem. (Work time: 4 minutes)

**1.**

$$\begin{array}{r} 1 \frac{2}{3} \\ + 4 \frac{1}{3} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 2 \frac{5}{7} \\ + 1 \frac{4}{7} \\ \hline \end{array}$$

**3.**

$$\begin{array}{r} 6 \\ - 3 \frac{1}{4} \\ \hline \end{array}$$

**4.**

$$\begin{array}{r} 5 \frac{3}{8} \\ - 1 \frac{5}{8} \\ \hline \end{array}$$



# Independent Practice (You Do)

**Learning Target:** I will add and subtract mixed numbers with like denominators

**Readiness** for adding and subtracting mixed numbers with different denominators

**Title of Game:** Play “**Addition/Subtraction Match-up!**”

**Number of Players:** 2

**Objective:** To match your answer cards to unknown problem cards.

## Materials:

- 1 set of **Problem** and **Answer** cards per group
- 1 recording sheet per player

## Set-up:

- Deal all 10 **Problem** cards face down in a row.
- Deal 5 **Answer** cards face up to each player.

## Directions:

- **Player 1** goes first
  - Take a card from the row of face down **Problem** cards and turn it face up
  - Write the problem on the recording sheet
  - And, find the answer in simplest form
- If **Player 1** has the **Answer** card, place it face up on top of the **Problem** card, take both cards and say:  
*“The answer to \_\_\_ is equal to \_\_\_.”*
- If **Player 1** does not have the answer to the **Problem** card, turn the **Problem** card back over.
- **Players 1 and 2** alternate turns. The **winner** is the first player to match all 5 of their cards.



Names \_\_\_\_\_

Date \_\_\_\_\_

**Learning Target:** I will add and subtract mixed numbers with like denominators

## **Independent Practice: Addition/Subtraction Match-up!** *(Recording Sheet)*


# Problem Cards (Set A)

**Storage Suggestions:** Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors.

Store 1 set of each in a sealable bag for each pair of students.

Set A <sub>1</sub>	$\begin{array}{r} 6 \frac{1}{4} \\ + 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 6 \frac{2}{4} \\ + 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{3}{4} \\ + 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{1}{4} \\ + 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>
	$\begin{array}{r} 6 \frac{1}{4} \\ - 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{2}{4} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{3}{4} \\ - 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 6 \frac{1}{4} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>
Set A <sub>2</sub>	$\begin{array}{r} 6 \frac{1}{4} \\ + 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 6 \frac{2}{4} \\ + 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{3}{4} \\ + 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{1}{4} \\ + 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>
	$\begin{array}{r} 6 \frac{1}{4} \\ - 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{2}{4} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \frac{3}{4} \\ - 2 \frac{2}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 6 \frac{1}{4} \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{4} \\ \hline \end{array}$ <p style="text-align: right;">Set A</p>



# Answer Cards (Set A)

**Storage Suggestions:** Copy the **Problem (Set A)** cards and **Answer (Set A)** cards in two different colors.  
Store 1 set of each in a sealable bag for each pair of students.

Set A <sub>1</sub>		Set A <sub>2</sub>	
$8\frac{3}{4}$ Set A	$3\frac{3}{4}$ Set A	$8\frac{3}{4}$ Set A	$3\frac{3}{4}$ Set A
$9\frac{1}{4}$ Set A	$2\frac{3}{4}$ Set A	$9\frac{1}{4}$ Set A	$2\frac{3}{4}$ Set A
$8\frac{1}{4}$ Set A	$3\frac{1}{4}$ Set A	$8\frac{1}{4}$ Set A	$3\frac{1}{4}$ Set A
8 Set A	$3\frac{1}{2}$ Set A	8 Set A	$3\frac{1}{2}$ Set A
$2\frac{1}{4}$ Set A	$2\frac{1}{4}$ Set A	$2\frac{1}{4}$ Set A	$2\frac{1}{4}$ Set A

# Problem Cards (Set B)

**Storage Suggestions:** Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors.

Store 1 set of each in a sealable bag for each pair of students.

Set B <sub>1</sub>	$\begin{array}{r} 5 \frac{1}{8} \\ + 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{3}{8} \\ + 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{7}{8} \\ + 2 \frac{3}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{5}{8} \\ + 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>
	$\begin{array}{r} 6 \frac{1}{8} \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \frac{3}{8} \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \frac{3}{8} \\ - 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 6 \frac{5}{8} \\ - 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>
Set B <sub>2</sub>	$\begin{array}{r} 5 \frac{1}{8} \\ + 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{3}{8} \\ + 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{7}{8} \\ + 2 \frac{3}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 4 \frac{5}{8} \\ + 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>
	$\begin{array}{r} 6 \frac{1}{8} \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \frac{3}{8} \\ - 2 \frac{5}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \frac{3}{8} \\ - 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 6 \frac{5}{8} \\ - 2 \frac{7}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{8} \\ \hline \end{array}$ <p style="text-align: right;">Set B</p>



# Answer Cards (Set B)

**Storage Suggestions:** Copy the **Problem (Set B)** cards and **Answer (Set B)** cards in two different colors.  
Store 1 set of each in a sealable bag for each pair of students.

Set B <sub>1</sub>		Set B <sub>2</sub>	
$7\frac{3}{4}$ Set B	$3\frac{1}{2}$ Set B	$7\frac{3}{4}$ Set B	$3\frac{1}{2}$ Set B
$7\frac{1}{4}$ Set B	$2\frac{3}{4}$ Set B	$7\frac{1}{4}$ Set B	$2\frac{3}{4}$ Set B
$7\frac{1}{2}$ Set B	$2\frac{1}{2}$ Set B	$7\frac{1}{2}$ Set B	$2\frac{1}{2}$ Set B
7 Set B	$3\frac{3}{4}$ Set B	7 Set B	$3\frac{3}{4}$ Set B
$2\frac{3}{8}$ Set B	$2\frac{5}{8}$ Set B	$2\frac{3}{8}$ Set B	$2\frac{5}{8}$ Set B

# Problem Cards (Set C)

**Storage Suggestions:** Copy the **Problem (Set C)** cards and **Answer (Set C)** cards in two different colors.

Store 1 set of each in a sealable bag for each pair of students.

Set C <sub>1</sub>	$\begin{array}{r} 5 \frac{1}{12} \\ + 2 \frac{5}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 6 \frac{3}{12} \\ + 2 \frac{9}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 4 \frac{5}{12} \\ + 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 4 \frac{9}{12} \\ + 2 \frac{7}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>
	$\begin{array}{r} 6 \frac{1}{12} \\ - 1 \frac{5}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \frac{3}{12} \\ - 1 \frac{9}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \frac{5}{12} \\ - 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 6 \frac{9}{12} \\ - 2 \frac{7}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \\ - 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>
Set C <sub>2</sub>	$\begin{array}{r} 5 \frac{1}{12} \\ + 2 \frac{5}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 6 \frac{3}{12} \\ + 2 \frac{9}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 4 \frac{5}{12} \\ + 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 4 \frac{9}{12} \\ + 2 \frac{7}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \\ - 2 \frac{3}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>
	$\begin{array}{r} 6 \frac{1}{12} \\ - 1 \frac{5}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \frac{3}{12} \\ - 1 \frac{9}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \frac{5}{12} \\ - 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 6 \frac{9}{12} \\ - 2 \frac{7}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>	$\begin{array}{r} 5 \\ - 2 \frac{10}{12} \\ \hline \end{array}$ <p style="text-align: right;">Set C</p>



# Answer Cards (Set C)

**Storage Suggestions:** Copy the **Problem (Set C)** cards and **Answer (Set C)** cards in two different colors.  
Store 1 set of each in a sealable bag for each pair of students.

Set C <sub>1</sub>		Set C <sub>2</sub>	
$7 \frac{1}{12}$ Set C	$4 \frac{2}{3}$ Set C	$7 \frac{1}{12}$ Set C	$4 \frac{2}{3}$ Set C
$7 \frac{1}{4}$ Set C	$3 \frac{1}{2}$ Set C	$7 \frac{1}{4}$ Set C	$3 \frac{1}{2}$ Set C
$7 \frac{1}{3}$ Set C	$2 \frac{7}{12}$ Set C	$7 \frac{1}{3}$ Set C	$2 \frac{7}{12}$ Set C
9 Set C	$4 \frac{1}{6}$ Set C	9 Set C	$4 \frac{1}{6}$ Set C
$2 \frac{3}{4}$ Set C	$2 \frac{1}{6}$ Set C	$2 \frac{3}{4}$ Set C	$2 \frac{1}{6}$ Set C



# Questions for Solving Word Problems

*Q<sub>1</sub>*

*What is the problem about?*

*Q<sub>2</sub>*

*What do I need to find?*

*Q<sub>3</sub>*

*What do I know?*

*Q<sub>4</sub>*

*What can I try?*

*Q<sub>5</sub>*

*Does my answer make sense?*



# Steps for Solving Word Problems

*Q<sub>1</sub>. What is the problem about?*

*Q<sub>2</sub>. What do I need to find?*

*Q<sub>3</sub>. What do I know?*

*Q<sub>4</sub>. What can I try?*

*Q<sub>5</sub>. Does my answer make sense?*