──────────── **Warm−Up** ────────────
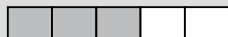
Directions: Work with your partner to find legal trades for the fraction strips below. Use your fraction kits and draw the legal trades.

1.   LEGAL TRADE

2.

Directions: Change the following mixed fractions to improper fractions.

3. $4\frac{5}{6} =$

4. $3\frac{3}{8} =$

Directions: Change the following improper fractions to mixed fractions.

5. $\frac{27}{5} =$

6. $\frac{22}{4} =$

Directions: Complete the following SOLVE problem with your teacher. You will only complete the S step.

Alex and Tomas are training for a walk-a-thon. They will compete next week. Alex walked $1\frac{9}{10}$ of a mile yesterday, and Tomas walked $\frac{3}{10}$ of a mile. How much farther did Alex walk than Tomas?

S Underline the question.
    This problem is asking me to find

Directions: Complete this page with your teacher and partner.

1.

Problem: $1\frac{3}{5} - \frac{1}{5}$

↓

Think about this:
Are the denominators the same?

↓

What is the difference in simplest form?

2.

Problem: $1\frac{3}{8} - \frac{1}{8}$

↓

Think about this:
Are the denominators the same?

↓

What is the difference in simplest form?

3.

Problem: $2\frac{3}{4} - \frac{2}{4}$

↓

Think about this:
Are the denominators the same?

↓

What is the difference in simplest form?

4.

Problem: $3\frac{2}{5} - \frac{1}{5}$

↓

Think about this:
Are the denominators the same?

↓

What is the difference in simplest form?

Directions: Complete this page with your teacher and partner.

1.

Problem: $1\frac{1}{6} - \frac{3}{6} =$

Mixed fraction to improper fraction

Rewrite the number sentence and subtract.

Is the difference an improper fraction?

Change to a mixed fraction.

Simplify.

2.

Problem: $1\frac{1}{3} - \frac{1}{3} =$

Mixed fraction to improper fraction

Rewrite the number sentence and subtract.

Is the difference an improper fraction?

Change to a mixed fraction.

Simplify.

Directions: Complete this page with your partner.

3.

Problem: $1\frac{5}{10} - \frac{3}{10} =$

Mixed fraction to improper fraction

Rewrite the number sentence and subtract.

Is the difference an improper fraction?

Change to a mixed fraction.

Simplify.

4.

Problem: $1\frac{2}{4} - \frac{1}{4} =$

Mixed fraction to improper fraction

Rewrite the number sentence and subtract.

Is the difference an improper fraction?

Change to a mixed fraction.

Simplify.

Directions: Complete this page with your teacher and partner.

	Legally trade, if needed, changing mixed fraction(s) to improper fractions with common denominators.	Subtract subtrahend from minuend by crossing out subtrahend on minuend.	Write numerically what you have in the previous column. Change the improper fraction differences to mixed fractions.
1. $1\frac{2}{4} - \frac{3}{4} =$			
2. $3\frac{1}{8} - 1\frac{3}{8} =$			
3. $2\frac{2}{6} - 1\frac{5}{6} =$			
4. $3\frac{1}{3} - 1\frac{2}{3} =$			

Directions: Complete this page with your teacher and partner.

1. $3\frac{3}{8}$
   $-1\frac{5}{8}$
   ‾‾‾
 	
Are denominators common?
 	
Minuend as improper fraction:
 	
Subtrahend as improper fraction:
 	
Rewrite the number sentence with the difference as an improper fraction.
 	
Difference as a mixed fraction.
	4. $2\frac{1}{8}$
	   $-\frac{3}{8}$
	   ‾‾‾
	
	Are denominators common?
	
	Minuend as improper fraction:
	
	Subtrahend as improper fraction:
	
	Rewrite the number sentence with the difference as an improper fraction.
	
	Difference as a mixed fraction.

2. $4\frac{1}{3}$
   $-1\frac{2}{3}$
   ‾‾‾
 	
Are denominators common?
 	
Minuend as improper fraction:
 	
Subtrahend as improper fraction:
 	
Rewrite the number sentence with the difference as an improper fraction.
 	
Difference as a mixed fraction.
	5. $4\frac{3}{6} - 2\frac{4}{6} =$
	
	Are denominators common?
	
	Minuend as improper fraction:
	
	Subtrahend as improper fraction:
	
	Rewrite the number sentence with the difference as an improper fraction.
	
	Difference as a mixed fraction.

3. $6\frac{2}{5} - 3\frac{4}{5} =$ Are denominators common? Minuend as improper fraction: Subtrahend as improper fraction: Rewrite the number sentence with the difference as an improper fraction. Difference as a mixed fraction.	**6.** $2\frac{1}{3} - 1\frac{2}{3} =$ Are denominators common? Minuend as improper fraction: Subtrahend as improper fraction: Rewrite the number sentence with the difference as an improper fraction. Difference as a mixed fraction.

Directions: Complete the following SOLVE problem with your teacher.

Alex and Tomas are training for a walk-a-thon. They will compete next week. Alex walked $1\frac{9}{10}$ of a mile yesterday, and Tomas walked $\frac{3}{10}$ of a mile. How much farther did Alex walk than Tomas?

S Underline the question.
   This problem is asking me to find

O Identify the facts.
   Eliminate the unnecessary facts.
   List the necessary facts.

L Choose an operation or operations.
   Write in words what your plan of action will be.

V Estimate your answer.
   Carry out your plan.

E Does your answer make sense? (Compare your answer to the question.)

   Is your answer reasonable? (Compare your answer to the estimate.)

   Is your answer accurate? (Check your work.)
   Write your answer in a complete sentence.

Directions: Complete each mixed fraction problem. Simplify all differences.

1. $2\frac{8}{10} - 1\frac{1}{10} =$

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

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

4. $4\frac{3}{8} - 2\frac{4}{8} =$

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

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

7. $3\frac{7}{12} - 1\frac{3}{12} =$

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

Homework

. . . .

Name   **Date**

Directions: Complete each mixed fraction problem. Simplify all differences.

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

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

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

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

5. $4\frac{2}{12} - 2\frac{5}{12} =$

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

7. $3\frac{4}{10} - 1\frac{5}{10} =$

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

9. $5\frac{2}{3} - 3\frac{1}{3} =$

10. $10\frac{8}{12} - 2\frac{3}{12} =$