_____ **Warm–Up** _____

Directions: Find the sum of the following fraction addition problems.

1. $\frac{1}{3} + \frac{1}{3} =$ _____

2. $\frac{2}{6} + \frac{3}{6} =$ _____

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

4. $\frac{3}{10} + \frac{3}{10} =$ _____

5. Explain, in your own words, the operation of subtraction.

LESSON 17: Subtract Fractions - Like Denominators

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

Miguel and his brother, Roberto, are pouring water into different containers to water their grandmother's flowers. Miguel has filled $\frac{9}{10}$ of his container, and Roberto has filled $\frac{3}{10}$ of his container. What is the difference between the amounts in the containers?

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

_____.

Directions: Complete this page with your teacher and partner.

1.

Problem:
$\frac{4}{5}$ – $\frac{1}{5}$

↓

What color are the fraction strips?

↓

Think about this:
Numerators?
Denominators?

↓

Legally trade for fewer fraction pieces, if possible.

2.

Problem:
$\frac{5}{8}$ – $\frac{3}{8}$

↓

What color are the fraction strips?

↓

Think about this:
Numerators?
Denominators?

↓

Legally trade for fewer fraction pieces, if possible.

Directions: Complete this page with your partner.

3.

Problem:

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

↓

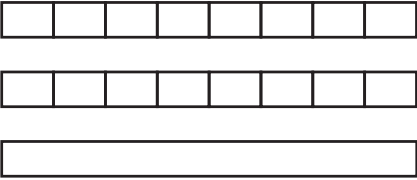What color are the fraction strips?

↓

Think about this:

Numerators?

Denominators?

↓

Legally trade for fewer fraction pieces, if possible.

4.

Problem:

$\frac{5}{6} - \frac{3}{6}$
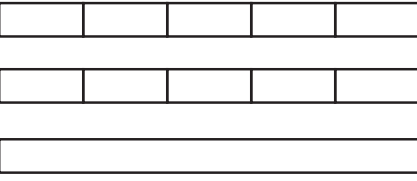
↓

What color are the fraction strips?

↓

Think about this:

Numerators?

Denominators?

↓

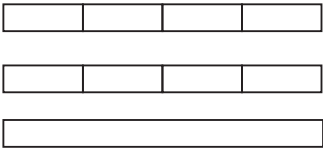Legally trade for fewer fraction pieces, if possible.
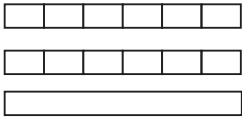
Directions: Complete this page with your teacher and partner.

Problem	Picture	Subtract fractions	Simplest form
1. $\frac{5}{8} - \frac{1}{8}$		$\frac{5}{8} - \frac{1}{8} =$	
2. $\frac{3}{5} - \frac{2}{5}$		$\frac{3}{5} - \frac{2}{5} =$	

Directions: Complete this page with your partner.

Problem	Picture	Subtract fractions	Simplest form
3. $\frac{3}{4} - \frac{2}{4}$		$\frac{3}{4} - \frac{2}{4} =$	
4. $\frac{4}{6} - \frac{1}{6}$		$\frac{4}{6} - \frac{1}{6} =$	

Directions: Complete this page with your teacher and partner.

Draw the first fraction (minuend).	Take away the second fraction (subtrahend) by crossing out.	Write numerically what you have in the previous column and then show it in simplest form.
1. $\frac{5}{6} - \frac{4}{6} =$		
2. $\frac{4}{5} - \frac{2}{5} =$		
3. $\frac{2}{4} - \frac{1}{4} =$		
4. $\frac{9}{10} - \frac{5}{10} =$		

Directions: Complete this page with your teacher and partner.

1. $\dfrac{5}{12}$ $-\dfrac{4}{12}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:	**4.** $\dfrac{6}{6}$ $-\dfrac{3}{6}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:
2. $\dfrac{7}{10}$ $-\dfrac{2}{10}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:	**5.** $\dfrac{3}{3}$ $-\dfrac{2}{3}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:
3. $\dfrac{7}{8}$ $-\dfrac{3}{8}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:	**6.** $\dfrac{3}{8}$ $-\dfrac{2}{8}$ What do we do with the numerators? What do we do with the denominators? Rewrite number sentence:

Directions: Complete the following SOLVE problem with your teacher.

Miguel and his brother, Roberto, are pouring water into different containers to water their grandmother's flowers. Miguel has filled $\frac{9}{10}$ of his container, and Roberto has filled $\frac{3}{10}$ of his container. What is the difference between the amounts in the containers?

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.

LESSON 17: Subtract Fractions - Like Denominators

Directions: Complete the following problems with like denominators. Draw pictures if needed. All answers should be simplified.

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

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

3. $\frac{9}{12} - \frac{3}{12} =$ _____

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

5. $\frac{8}{10} - \frac{4}{10} =$ _____

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

7. $\frac{9}{10} - \frac{1}{10} =$ _____

8. $\frac{7}{12} - \frac{4}{12} =$ _____

9. $\frac{5}{10} - \frac{2}{10} =$ _____

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

Homework

. . . .

Directions: Solve the following problems. Draw pictures if needed to solve. All answers should be simplified.

1. $\frac{9}{10} - \frac{2}{10} =$ _____

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

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

4. $\frac{9}{12} - \frac{7}{12} =$ _____

5. $\frac{7}{8} - \frac{4}{8} =$ _____

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

7. $\frac{9}{10} - \frac{7}{10} =$ _____

8. $\frac{4}{12} - \frac{3}{12} =$ _____

9. $\frac{10}{10} - \frac{8}{10} =$ _____

10. $\frac{3}{6} - \frac{2}{6} =$ _____