

# MATH WORKSHOP

## ADDING & SUBTRACTING LIKE FRACTIONS



GETTING "HOOKED"

ON ADDING FRACTIONS

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$\frac{1}{6} + \frac{2}{6} =$

ON ADDING FRACTIONS

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GETTING "HOOKED"

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$\frac{2}{10} + \frac{7}{10} =$

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GETTING "HOOKED"

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

ON ADDING FRACTIONS

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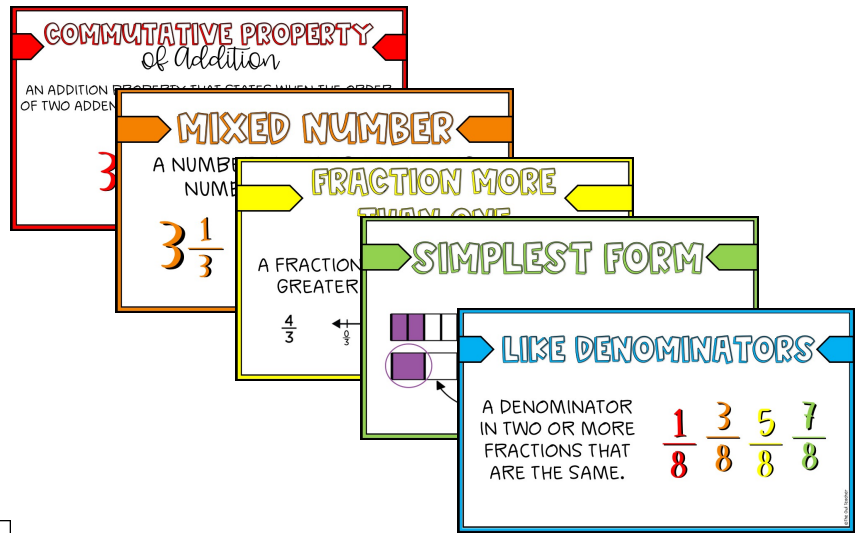


PRINTABLE & DIGITAL



# VOCABULARY CARDS

CCSS aligned vocabulary cards for use during the lessons, your word walls, and so much more. These are also included in the digital version so you can project them on your board.



NAME \_\_\_\_\_

**1) Decompose the fraction below. Decompose it at least 3 different ways.**

**2) Solve the following problem. Remember to write each fraction in simplest terms.**

**3) Solve the following problem. Remember to write each fraction in simplest terms.**

**4) Solve the following problem. Remember to write each fraction in simplest terms.**

**5) Solve the following problem. Remember to write each fraction in simplest terms.**

**6) Solve the following problem. Remember to write each fraction in simplest terms.**

**7) Solve the following problem. Remember to write each fraction in simplest terms.**

**8) Solve the following problem. Remember to write each fraction in simplest terms.**

**9) Solve the following problem. Remember to write each fraction in simplest terms.**

**10) Solve the following problem. Remember to write each fraction in simplest terms.**

**11) Solve the following problem. Remember to write each fraction in simplest terms.**

**12) Solve the following problem. Remember to write each fraction in simplest terms.**

**13) Solve the following problem. Remember to write each fraction in simplest terms.**

**14) Solve the following problem. Remember to write each fraction in simplest terms.**

**15) Solve the following problem. Remember to write each fraction in simplest terms.**

**16) Solve the following problem. Remember to write each fraction in simplest terms.**

**17) Solve the following problem. Remember to write each fraction in simplest terms.**

**18) Solve the following problem. Remember to write each fraction in simplest terms.**

**19) Solve the following problem. Remember to write each fraction in simplest terms.**

**20) Solve the following problem. Remember to write each fraction in simplest terms.**

**21) Solve the following problem. Remember to write each fraction in simplest terms.**

**22) Solve the following problem. Remember to write each fraction in simplest terms.**

## PRE-TESTS & POST TESTS

Pre-tests and Post-tests are provided so that you can determine what your students know and don't know. This also helps determine growth after the unit is complete.

## UNIT OVERVIEW

A suggested unit overview and pacing is provided, though it's not necessary to follow it. This is to help make planning easy on you. It is also set up so you can just click on the lesson and it'll take you directly to it.

UNIT OVERVIEW				
Click on the box to go directly to that lesson. <a href="#">Click here to access the full unit in digital form.</a>				
<b>LESSON 1</b> How can we decompose fractions? (concrete)	<b>LESSON 2</b> How can we add fractions with like denominators? (drawing parts)	<b>LESSON 3</b> How can we subtract fractions with like denominators? (separating parts)	<b>LESSON 4</b> How can we add mixed numbers with like denominators? (representational)	<b>LESSON 5</b> How can we subtract fractions with like denominators?
pg. 24	pg. 38	pg. 54	pg. 72	pg. 91
<b>LESSON 6</b> How can we add fractions with like denominators? (abstract)	<b>LESSON 7</b> How do we rename fractions more than one mixed number?	<b>LESSON 8</b> How do we add mixed numbers with like denominators?	<b>LESSON 9</b> How do we subtract mixed numbers with like denominators?	<b>LESSON 10</b> How do we add mixed numbers with like denominators?
p. 99	pg. 108	pg. 118	pg. 124	pg. 143
<b>LESSON 11</b> How can you rename a mixed number to help you subtract?	<b>LESSON 12</b> How can you rename a mixed number to help you subtract?	<b>LESSON 13</b> How do we subtract mixed numbers with like denominators?	<b>LESSON 14</b> How can proper fractions help us with adding and subtracting mixed numbers with like denominators?	<b>LESSON 15</b> Unit Review
pg. 160	pg. 174	pg. 183	pg. 191	pg. 206
Pre-test pg. 20-23				Post-test pg. 215-218

VOCABULARY COVERED		CCSS COVERED	
unit fraction	difference	4.NF.1	
mixed number	addend	4.NF.3a	
fraction more than one	whole	4.NF.3b	
fraction less than one	fraction less than one	4.NF.3c	
like denominators	simplest form		
decompose	equation		
regroup/rename	improper		
sum	commutative property of addition		
subtrahend	associative property of addition		
	improper fraction		

## LESSON PLANS

Detailed and thorough lesson plans to help you work through the workshop model. It includes the "I Can" statement, CCSS, vocabulary, materials used, intervention ideas, and extensions.

**Lesson 1: How can we decompose a mixed number into its fractional parts?**

**I Can Statement**  
I can rename a mixed number to help me subtract.

**CCSS**  
4.NF.3c, 4.NF.1, SMP 1, 2, 4, 5, 6, 7, 8

**Vocabulary**  
Fractions greater than one, mixed number, difference, like denominators, subtrahend, mixed, whole number, regroup, rename

**Materials**  
Fraction bars, number lines, and grid paper

**Mini-Lesson**  
I can rename a mixed number to help me subtract.

**Active Engagement**  
I can rename a mixed number to help me subtract.

**Link and Independent Practice**  
I can rename a mixed number to help me subtract.

**Intervention**  
I can rename a mixed number to help me subtract.

**Closing**  
I can rename a mixed number to help me subtract.

**Extension**  
I can rename a mixed number to help me subtract.

**Assessment**  
I can rename a mixed number to help me subtract.

**Reflection**  
I can rename a mixed number to help me subtract.

# DIGITAL VERSION

This unit includes a digital version. You can assign parts of the resource to your students whether you are at school or distance learning.

### HOW MANY WAYS?

1 whole =  $\frac{5}{5}$

Fraction =  $\frac{1}{5}$

1 whole =  $\frac{7}{5} + \frac{1}{5}$

### RENAMING FRACTIONS

You can write a mixed number as a FRACTION MORE THAN ONE.

$\frac{7}{3} = 2\frac{1}{3}$

A MIXED NUMBER is a number represented by a whole number and a fraction.

Step 1: Create a model

### ADDING & SUBTRACTING FRACTIONS WITH LIKE DENOMINATORS

#### ADDING

$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

We add the numerators, but we DO NOT add the denominators.

#### SUBTRACTING

$\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$

$\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$

The whole is the same. The denominators do not change.

We subtract the numerators, but we DO NOT subtract the denominators.

### Making SNAP Decisions

Renaming Mixed Fractions

CLICK HERE TO SPIN THE SPINNER!

### CHASIN' THE CHEESE

1. Have one player spin the spinner

START

FINISH

Directions:

- Spin the spinner to determine who will go first. The player with the largest number goes first.
- The first player spins the spinner and finds that number on their trail to the cheese.
- Solve the problem where located and have another player check the answer key. If it's correct, place a marker on that spot. If it's incorrect, the player moves back to start.
- The first player to have their markers on all the spaces on the trail to the cheese wins!

## ANCHOR CHARTS

Detailed anchor charts that break things down for your students to help them understand important concepts.

## ACTIVITIES

Hands-on, concrete activities that use manipulatives. Activities are created based on research and best practices. Students are engaged and enjoy math more.

### Snow Way Out

Directions: Each player needs to have their own color pencil. Draw a card and solve the problem. If you solved the problem correctly, you can color in one hexagon. If you solved it incorrectly, your turn is over. Keep coloring in one hexagon at a time until you move across the board! However, watch out for your partner. Blocking you or the numbers. You cannot color in hexagons that are already filled in. The first player to make it across the board wins!

Player One Start

### Hopscotch

Directions:

- Place your markers on square 1.
- On your turn, draw a card and give the correct answer. Have another player check the answer key. If your answer is correct, move your marker one space on the hopscotch board. If your answer is incorrect, do not move your marker.

### launchpad

$\frac{1}{2} + \frac{1}{2} = ?$	$\frac{1}{3} + \frac{1}{3} = ?$	$\frac{1}{4} + \frac{1}{4} = ?$	$\frac{1}{5} + \frac{1}{5} = ?$	$\frac{1}{6} + \frac{1}{6} = ?$
$\frac{1}{2} + \frac{1}{3} = ?$	$\frac{1}{3} + \frac{1}{4} = ?$	$\frac{1}{4} + \frac{1}{5} = ?$	$\frac{1}{5} + \frac{1}{6} = ?$	$\frac{1}{6} + \frac{1}{7} = ?$
$\frac{1}{2} - \frac{1}{3} = ?$	$\frac{1}{3} - \frac{1}{4} = ?$	$\frac{1}{4} - \frac{1}{5} = ?$	$\frac{1}{5} - \frac{1}{6} = ?$	$\frac{1}{6} - \frac{1}{7} = ?$
$\frac{1}{2} + \frac{1}{2} = ?$	$\frac{1}{3} + \frac{1}{3} = ?$	$\frac{1}{4} + \frac{1}{4} = ?$	$\frac{1}{5} + \frac{1}{5} = ?$	$\frac{1}{6} + \frac{1}{6} = ?$

### PUZZLING AS FRACTIONS

Directions: Look at each puzzle problem and solve the problem. Write the answer on the puzzle piece. The puzzle pieces will fit together when you are done.

### Monster Fractions

Directions: Solve each fraction problem below. Then cut out the images and glue them on the monster's face. The monster's face will be complete when you are done.

## PRACTICE WORKSHEETS

Worksheets are provided to give students a chance to practice the newly learned skills and to work their way to mastery. This also provides you the opportunity to check for understanding. Answer keys are included.

**INCLUDES COLOR AND B/W VERSIONS!**