ABOUT THIS RESOURCE

GRADE 5
Fractions Unit
Adding and Subtracting

Completely Editable!
Customize to fit your needs!
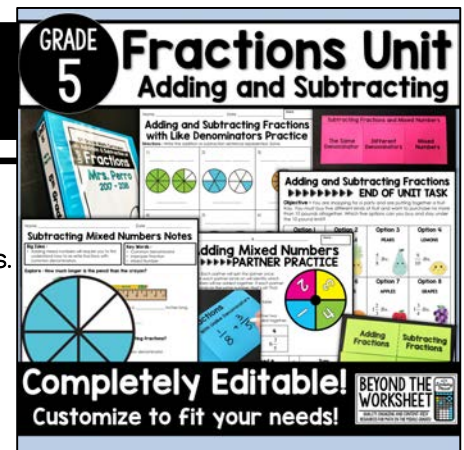
Details :

This 20 day unit covers 5th Grade Adding and Subtracting Fractions Standards. If the skills don't completely align to your state standards, that's OK because this resource is 100% editable! All content can be modified to make this unit perfect for your classroom!

Included Resources :

- ➤ Weekly warm up recording sheets
- ➤ Weekly exit ticket sheets
- ➤ Blank lesson plans
- ➤ Unit tracking pages
- ➤ Unit vocabulary sheet
- ➤ Unit pre-assessment
- ➤ Warm ups
- ➤ End of Unit Performance Task

- ➤ Partner Activities
- ➤ Traditional notes
- ➤ Fold and Flip Notes
- ➤ Practice assignments (for homework or classwork)
- ➤ A complete PDF of the unit
- ➤ An editable PPT version of the unit.
- ➤ A binder cover and spine labels

Lessons :

- ➤ Lesson 1 : Adding & Subtracting Fractions with Like Denominators
- ➤ Lesson 2 : Adding & Subtracting Fractions with Unlike Denominators
- ➤ Lesson 3 : Adding Mixed Numbers
- ➤ Lesson 4 : Subtracting Mixed Numbers

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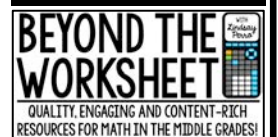
STAY IN TOUCH!

Meet the Author :

My name is Lindsay Perro and I have been an educational writer and content developer since 2009. After spending 8 years as a Middle School Math Teacher and Interventionist, I am now following my passion and focusing on creating quality educational resources to make your job easier and keep students engaged and excited about math!

Lindsay Perro

BEYOND THE WORKSHEET
QUALITY, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!

Adding and Subtracting Fractions
▶▶▶ Unit Plan for 5th Grade Math

20 DAY UNIT

LESSON	RESOURCES	
Unit Prep (pgs. 6 – 12)	• Weekly Warm Up Sheet • Exit Ticket Template • Blank Lesson Plan Template • Unit Vocabulary Pages • Unit Pre-Assessment	
1) Adding and Subtracting Fractions with Like Denominators (pgs. 13 – 22)	• Four Warm Ups • Adding Fractions with Like Denominators Notes (2 pages) • Adding Fractions with Like Denominators Practice Worksheets (2) • Adding Fractions with Like Denominators Problem Solving Worksheet	
2) Adding and Subtracting Fractions with Unlike Denominators (pgs. 23 – 38)	• Four Warm Ups • Adding Fractions with Unlike Denominators Notes (2 pages) • Adding Fractions with Unlike Denominators Practice • Adding and Subtracting Fractions with Unlike Denominators Practice • Finding the Least Common Denominator Notes (3 pages) • Adding Fractions Fold and Flip Notes • Adding and Subtracting Fractions Mini Assessment	
3) Adding Mixed Numbers (pgs. 39 – 46)	• Four Warm Ups • Adding Mixed Numbers Notes • Adding Mixed Numbers Practice • Adding Mixed Numbers Partner Practice	
4) Subtracting Mixed Numbers (pgs. 47 – 68)	• Four Warm Ups • Subtracting Mixed Numbers Notes (2 pages) • Subtracting Fractions and Mixed Numbers Fold and Flip Notes • Fraction Operations Fold and Flip Notes • Subtracting Mixed Numbers Worksheet • Adding and Subtracting Mixed Numbers Practice (3 different worksheets) • Adding and Subtracting Mixed Numbers Mini Assessment (2 assessments)	
End of Unit (pgs. 69 – 74)	• End of Unit Task (2 pages) • Unit 5 Reference Sheet • Unit 5 Assessment (2 pages)	

5

Name _____ Date _____ **two**

Adding and Subtracting Fractions with Like Denominators Warm Up

Skill : Equivalent fractions

1) Write a fraction equivalent to the one below. $$\frac{10}{12}$$	2) Write a fraction equivalent to the one below.
3) Write a fraction equivalent to the one below. $$\frac{2}{3}$$	4) Write a fraction equivalent to the one below.

Name _____ Date

Adding and Subtracting Fractions with Unlike Denominators Warm Up

Skill : Adding and subtracting fractions with like denominators.

1) Solve. $$\frac{4}{6} - \frac{1}{6}$$	2) Solve. $$\frac{4}{10} + \frac{9}{10}$$
3) Solve.	4) Solve. $$\frac{5}{9} + \frac{4}{9}$$

Name _____ Date _____ **four**

Adding Mixed Numbers Warm Up

Skill : Adding mixed numbers.

1) Find the sum. $$1\frac{4}{5} + 4\frac{3}{10}$$	2) Find the sum. $$2\frac{2}{?} + 3\frac{1}{?}$$
3) Find the sum. $$3\frac{4}{5} + 3\frac{1}{9}$$	4) Find
5) Find the sum. $$4\frac{1}{?} + 12\frac{1}{?}$$	6) Find

Name _____ Date _____ **two**

Subtracting Mixed Numbers Warm Up

Skill : Adding mixed numbers.

1) Find the sum. $$6\frac{1}{4} + 1\frac{2}{5}$$	2) Find the sum. $$1\frac{1}{2} + 4\frac{1}{3}$$
3) Find the sum. $$3\frac{2}{5} + 3\frac{3}{8}$$	
5) Find the sum.	6) Find

Warm Ups

Name _____   Date _____

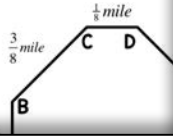# Adding and Subtracting Fractions with Like Denominators Notes

Big Idea :
- The sum or difference of two fractions with the same denominator will also have that denominator.

Key Words :
- Common Denominator
- Denominator
- Numerator

Explore : How can you add fractions with the same denominator?

- The diagram to the right shows the outline of a new park being built in town.

- A walking trail is going to go around the perimeter of the park. How far will

$\frac{3}{8}$ mile

$\frac{1}{8}$ mile

C D

B

Name _____

Adding and Subtract... with Unlike Denomin...

Big Idea :
- You must find a common denominator before you can add or subtract fractions with unlike denominators.

Key
- C...
- Equiva...

Explore : How can you add fractions with the unlike denominators?

- Belle ate ½ of a pie and Bruce ate ¼ of a pie. How much of the pie did they eat altogether?

- Can you just add straight across? $\frac{1}{2}+\frac{1}{4}=\frac{1+1}{2+4}=\frac{2}{6}=\frac{1}{3}$

- ...doesn't make sense! It isn't possible for them to have eaten one third of ... altogether when Belle alone ate half of the pie! One half is greater ... e third.

- ...the right way?
  ...n denominators are necessary because they make fractions have the same ... "parts." The denominator represents the number of parts of something

---

Name _____   Date _____

Calculating Common Denominators
▶▶▶▶▶▶▶▶▶▶▶▶▶▶▶▶▶▶▶ Notes

Big Idea :
- You must find a common denominator before you can add or subtract fractions with unlike denominators.

Key Words :
- Least Common Denominator
- Least Common Multiple

Explore : How can you add fractions using the least common denominat...

- To find a common denominator for two fractions, you need to find t... common multiple (LCM) of the two denominators.

How Can I Do That? Practice by finding the LCM of 4 and 6.

- To find the least common multiple of 4 and 6, list the first few multipl... each number.
  - Multiples of 4 : 4, 8, 12, 16, 20, 24...

▶▶ Adding and Subtracting Fractions With Unlike Denominators Notes

Re-Writing Fractions with Common Denominators.

A bag is filled with candy. $\frac{1}{3}$ of the candies are chocolate and $\frac{1}{5}$ are caramel.

What fraction of the of the candies in the bag are chocolate and caramel?

Steps	Show your work!
1. List the first few multiples of each denominator.	Multiples of 3 : 3, 6, 9, 12, 15... Multiples of 5 : 5, 10, 15, 20, 25...
2. Find the least common multiple of the ...nominators. This will be your common ...nominator.	The least common multiple is 15.
...write each fraction to have the ...mmon denominator. Do this by ...ltiplying the numerator by whatever	$\frac{1}{3}=\frac{1\cdot5}{}=\frac{5}{}$ $\frac{1}{5}=\frac{1\cdot3}{}=\frac{3}{}$

Name _____   Date _____

Adding Mixed Numbers Notes

Big Idea :
- Adding mixed numbers will require you to first understand how to re-write fractions with common denominators.

Key Words :
- Common Denominator
- Improper Fraction
- Mixed Number

Explore : How can fraction strips help you add mixed numbers?

- The fraction strips to the right show $1\frac{2}{3}+\frac{2}{3}$.
  - Combine the 1/3 strips.

  | | | | | | |
  1/3 1/3 1/3 1/3 1/3 1/3

  - Observe that there are now two full strips and one-third leftove...

1/3 1/3
1/3

Name _____   Date _____

Subtracting Mixed Numbers Notes

Big Idea :
- Adding mixed numbers will require you to first understand how to re-write fractions with common denominators.
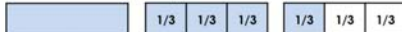
Key Words :
- Common Denominator
- Improper Fraction
- Mixed Number

Explore : How much longer is the pencil than the crayon?

CRAYON

- The pencil is _____ inches long. The crayon is _____ inches long.

- Write a subtraction sentence :

  _____

- Subtract.

Is subtracting mixed numb...
- Yes! You follow the same ste...
  1. Write equivalent fract...
  2. Subtract the fractions...
  3. {This step is new!} Sub...
  4. Simplify if necessary.

Adding and Su...
With Like Denominators
Subtracting Fractions
The Same Denominator
Different...Denom...
Adding Fractions
Adding Fractions   Subtracting Fractions
Multiplying Fractions   Dividing Fractions

$\frac{5}{8}+\frac{7}{8}$

...ctions?

... common denominat...

...rs.

...nk's Fruit Sa...

... lbs. oranges

... lbs. grapes

---

2. How many more pounds of berries are ...needed than oranges?

$3\frac{1}{2}$ lbs. berries

Name _____ Date _____ Score: [ ]

Adding and Subtracting Fractions with Like Denominators Practice

Directions: Write the addition or subtraction sentence represented. Solve.

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

Name _____ Date _____

Adding and Subtracting F_____ Like Denominators Proble_____

1) Bradley bought $\frac{3}{5}$ lb. of oranges and $\frac{1}{5}$ lb. of apples. How much fruit did Bradley buy in all?

Number Sentence:

_____

Solution:

2) In Physical Education _____ walked $\frac{10}{12}$ mile on Tuesday and $\frac{7}{12}$ mile on Thursday. How far did he walk in all that week?

Number Sentence:

_____

Solution:

Name _____ Date _____ Score: [ ]

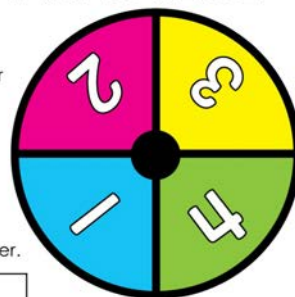## Adding Mixed Numbers ▶▶▶▶▶▶▶▶▶▶▶▶ PRACTICE

Adding Fractions:

1. $\frac{3}{4} + \frac{4}{9}$

2. $\frac{3}{5} + \frac{8}{10}$

3. $\frac{2}{3} + \frac{?}{?}$

Adding Mixed Numbers:

Partners: _____ & _____ Score: [ ]

Adding Mixed Numbers ▶▶▶▶▶▶ PARTNER PRACTICE

Directions: Each partner will spin the spinner once. The number each partner lands on will identify which mixed numbers will be added together. If each partner spins and lands on the same number, that's ok! That mixed number can just be added to itself.

_____ numbers and sums in the table

_____ one spins a 2 and partner two _____ numbers 2 and 3 will be added together.

	2	3	4
	$2\frac{1}{2}$	$3\frac{3}{4}$	$6\frac{3}{5}$

Name _____ Date _____ Score: [ ]

Adding & Subtracting Mixed Numbers Practice

Use the recipe card to answer the questions.

Simply Strawberry

Cupcakes:
- Flour: $1\frac{1}{2}$ cups
- Baking Powder: $1\frac{1}{4}$ tsp
- Salt: $\frac{1}{3}$ tsp
- Sugar: 1 cup
- Vanilla: $1\frac{1}{3}$ tsp
- Eggs: 2
- Milk: $1\frac{1}{8}$ cup

Topping:
- Egg Whites: 4
- Sugar: $1\frac{1}{4}$ cup
- Whipped Cream
- Strawberries

1. How many total cups of sugar are needed for the recipe?

2. How much baking powder and salt are needed?

_____ times? Hint: Add the amount in the recipe three times.

Name _____ Date _____ Score: [ ]

Adding & Subtracting Mixed Numbers Practice

Review:
A number that is part whole num_____

Practice:
The table below shows how muc_____ dessert recipes.

Cake
• $2\frac{1}{2}$ cups of sugar
• $\frac{7}{8}$ cups of milk

Steps	Show your work!

Worksheets

Name _____ Date _____ Score :

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶▶▶▶▶▶ Pre Assessment

Prior Knowledge : Simplify each fraction.

1) $\dfrac{10}{12}$ 2) $\dfrac{10}{15}$ 3) $\dfrac{4}{6}$ 4) $\dfrac{3}{21}$

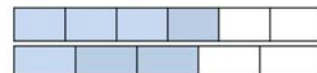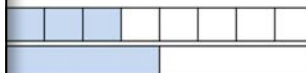**Prior Knowledge :** Write a fraction equivalent to the given fraction.

Name _____ Date _____

Adding & Subtract...
Fractions Mini Asse...

1) Find the LCD of the given fractions.   2) Fin...

$\dfrac{4}{5}$ and $\dfrac{1}{3}$

3) Write the problem represented by the fraction strips.   4) Write the problem represented by the fraction strips.

Name _____ Date _____ Score :

Standard : 5.NF.2

Adding & Subtracting Mixed Numbers Mini Assessment

Read the scenario carefully and solve each problem.

Scenario : Marcus and Radha are sharing a pizza. Marcus ate 1/5 of the pizza and Radha ate 1/4 of it. Later, Marcus eats another 1/5 of the pizza.

1. What fraction of the pizza did Marcus eat altogether?

2. What fraction of the pizza was left?

3. Radha decides she wants to have another 3/10 of the pizza.
   • Is there enough pizza leftover for Radha to have 3/10?

   • Explain how you found your answer.

4. The next time Radha and Marcus order pizza, they decide to order three. They are...

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶ END OF UNIT TASK

Objective : You are shopping for a party and are putting together a fruit tray. You must buy five different kinds of fruit and want to purchase no more than 10 pounds altogether. Which five options can you buy and stay under the 10 pound limit?

Option 1	Option 2	Option 3	Option 4
BLUEBERRIES	PINEAPPLE	PEARS	LEMONS
$2\dfrac{1}{5}$ lbs.	$2\dfrac{7}{8}$ lbs.	$\dfrac{5}{8}$ lbs.	$\dfrac{9}{10}$ lbs.
Option 5	Option 6	Option 7	Option 8
CHERRIES	ORANGES	APPLES	GRAPES

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶▶▶▶▶ Reference Sheet

Adding Fractions and Mixed Numbers :	Example :
➤ **Step 1 :** Find the least common denominator.	$3\dfrac{1}{2} + 2\dfrac{3}{4}$
➤ **Step 2 :** Re-write each fraction using the least common denominator.	$3\dfrac{2}{4} + 2\dfrac{3}{4}$
➤ **Step 3 :** Add the numerators and keep the denominator the same.	$\dfrac{2}{4} + \dfrac{3}{4} = \dfrac{5}{4} = 1\dfrac{1}{4}$
➤ **Step 4 :** Simplify your answer if necessary.	
➤ **Step 5 :** Add the whole numbers and the simplified sum of the fractions.	$3 + 2 + 1\dfrac{1}{4} = 6\dfrac{1}{4}$

I can add and subtract fractions and mixed numbers with like and unlike denominators.

Subtracting Fractions and Mixed Numbers :	Example :
➤ **Step 1 :** Find the least common denominator.	$9\dfrac{1}{3} - 3\dfrac{3}{5}$
➤ **Step 2 :** Re-write each fraction using the least common...	

➤ **Step 5 :** Simplify your answer if necessary.
➤ **Step 6 :** Subtract the whole numbers

Name _____ Date _____ Score :

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶▶▶▶▶▶ Assessment

"I can add and subtract fractions and mixed numbers with like and unlike denominators."

Add:
1) $\dfrac{11}{12} + \dfrac{1}{2}$ 2) $\dfrac{11}{15} + \dfrac{2}{3}$ 3) $2\dfrac{1}{6} + 1\dfrac{4}{5}$ 4) $6\dfrac{7}{10} + 3\dfrac{3}{4}$
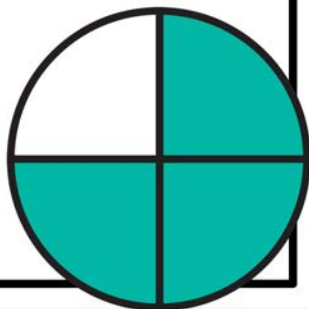
Subtract:
5) $\dfrac{18}{10} - \dfrac{5}{10}$ 6)

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Assessments

5th Grade Math Curriculum

Unit 5 Addition & Subtraction of Fractions

Unit 5

Unit 5

Unit 5

Unit 5

Unit 5

5th Grade Math

5th Grade Math

5th Grade Math

5th Grade Math

5th Grade Math Unit 5
Adding & Subtracting Fractions

STUDENT TRACKING

Name	Pre Assessment	Post Assessment	Notes

Unit FIVE Lesson TWO
Add & Subtract with Unlike Denominators

STUDENT TRACKING

Name	Adding Practice	Add & Subtract WS	LCD Notes	Fold and Flip	Mini Assessment

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Tracking Sheets & Binder Labels

Adding and Subtracting Fract...
▶▶▶▶ Unit Plan for 5th Grade M...

VOCABULARY	OBJECTIVES
➤ Denominator ➤ Common Denominator ➤ Equivalent Fractions ➤ Fraction ➤ Improper Fractions ➤ Least Common Denominator	• Add and subtract fractions using equiv... fractions. • Use visual fraction models when proble... solving.

Name_____ Week of _____ to _____

▶▶▶▶▶ Weekly Warm Up Sheet

Date:

Date:

Date:

COMPLETELY EDITABLE

Exit Ticket	Exit Ticket	Exit Ticket	Exi...
Name_____ Date _____	Name_____ Date _____	Name_____ Date _____	Name_____ Date _____

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶▶▶▶▶▶▶ Lesson Plan

Standard(s): _____ **Date(s):** _____

Student Materials:

☐ Calculator   ☐ Scissors   ☐ Compass   ☐ _____
☐ Colored pencils ☐ Glue   ☐ Graph paper ☐ _____
☐ Ruler   ☐ Protractor   ☐ Dry erase   ☐ _____

Lesson Progression:

_____
_____
_____
_____
_____

Adding & Subtracting Fractions Unit

Lesson 2 : Adding and Subtract... Fractions With Unlike Denomina...

Suggested Time Frame : Four Days

Resources Included:

• Four Warm Ups
• Adding Fractions with Unlike Denominators No... pages)
• Adding Fractions with Unlike Denominators Pr...
• Adding and Subtracting Fractions with Unlike Denominators Practice
• Finding the Least Common Denominator Note... pages)
• Adding Fractions Fold and Flip Notes
• Adding and Subtracting Fractions Mini Assessm...

Essential Skills

Adding and Subtracting Fractions
▶▶▶▶▶▶▶▶▶▶▶ VOCABULARY

TERM	DEFINITION
Denominator	
Common Denominator	
Equivalent Fractions	
Fraction	
Improper Fraction	
Least Common Denominator	
Mixed Number	

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QUALITY, ENGAGING AND CONTENT-RICH RESOURCES FOR MATH IN THE MIDDLE GRADES!

Planning Pages