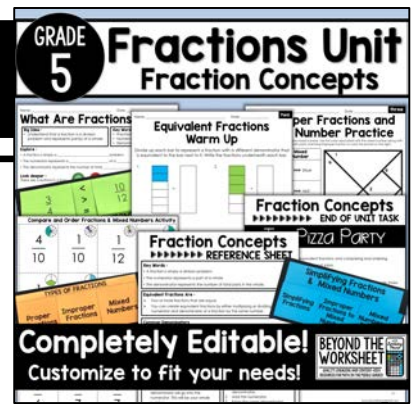


# ABOUT THIS RESOURCE



## Details :

This 10 day unit primarily reviews 4th grade skills in order to get students ready for the next two units. 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 : Visualizing Fractions
- Lesson 2 : Improper Fractions and Mixed Numbers
- Lesson 3 : Equivalent Fractions
- Lesson 4 : Compare and Order Fractions and Mixed Numbers

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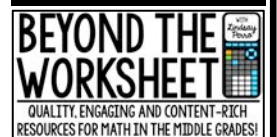


## Meet the Author :

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



# Fraction Concepts

## ▶▶▶ Unit Plan for 5<sup>th</sup> Grade Math

**10 DAY  
UNIT**

| LESSON  | RESOURCES  |
|---|--|
| Unit Prep<br>(pgs. 6 – 12)                                | <ul style="list-style-type: none"> <li>• Weekly Warm Up Sheet</li> <li>• Exit Tickets</li> <li>• Lesson Plan Template</li> <li>• Vocabulary</li> <li>• Pre-Assessment</li> </ul>   |
| 1) Visualizing Fractions<br>(pgs. 13 – 21)                | <ul style="list-style-type: none"> <li>• Two Warm Ups</li> <li>• What Are Fractions? Notes (2 pages)</li> <li>• Fraction Bars Reference Printable</li> <li>• Examining Fraction Value Coloring Worksheet</li> <li>• Fractions as Division Practice Worksheets (2)</li> </ul>   |
| 2) Improper Fractions and Mixed Numbers<br>(pgs. 22 – 35) | <ul style="list-style-type: none"> <li>• Three Warm Ups</li> <li>• Types of Fractions Fold and Flip Notes</li> <li>• Fractions and Mixed Numbers Notes</li> <li>• Simplifying Fractions and Mixed Numbers Fold and Flip Notes</li> <li>• Converting Between Fractions and Mixed Numbers Worksheets (2)</li> <li>• Improper Fractions and Mixed Numbers Coloring Worksheet</li> </ul> |
| 3) Equivalent Fractions<br>(pgs. 36 – 41)                 | <ul style="list-style-type: none"> <li>• Two Warm Ups</li> <li>• Common Denominator Notes</li> <li>• Equivalent Fractions Worksheets (2)</li> </ul>  |
| 4) Compare and Order Fractions<br>(pgs. 42 – 57)          | <ul style="list-style-type: none"> <li>• Three Warm Ups</li> <li>• Comparing and Ordering Fractions and Mixed Numbers Notes</li> <li>• Comparing Fractions Fold and Flip Notes</li> <li>• Compare and Order Fractions and Mixed Numbers Worksheet</li> <li>• Compare and Order Fractions Activity</li> </ul>   |
| End of Unit<br>(pgs. 58 – 63)                             | <ul style="list-style-type: none"> <li>• End of Unit Task (2 pages)</li> <li>• Unit Reference Sheet</li> <li>• Unit Exam (2 pages)</li> </ul>  |

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

one

# Visualizing Fractions Warm Up

Ellie and Sal each ate pizza slices and Sal's pizza

The pictures below show each child

Ellie



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

one

# Improper Fractions & Mixed Numbers Warm Up

Write a fraction to represent each situation.

- 1) Pete ordered 15 pizzas for a party. There were seven halves of pizza left.
- 2) Tina broke five candy bars into eight equal pieces and gave the pieces away to friends. There were 25 pieces left.

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

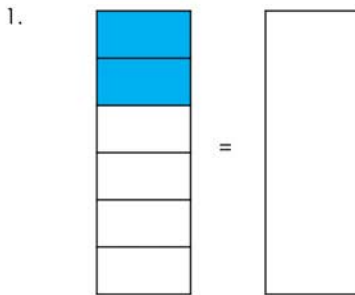
two

notebooks that are divided into

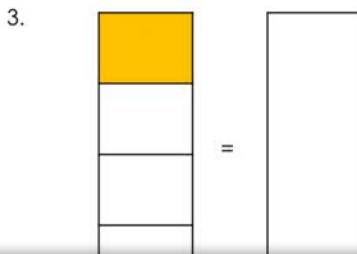
one

# Equivalent Fractions Warm Up

Divide up each bar to represent a fraction which is equivalent to the bar next to it. Write the fraction in the box.



2.



4.

# Compare and Order Fractions & Mixed Numbers Warm Up

Write TWO fractions that are equivalent to each given fraction. One equivalent fraction must be found by division and one must be found by multiplication.

1.  $\frac{60}{100}$

4.  $\frac{8}{10}$

2.  $\frac{4}{6}$

5.  $\frac{6}{8}$

3.  $\frac{10}{12}$

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# Warm Ups

# What Are Fractions? Notes

## Big Idea :

- Understand that a fraction is a division problem and represents part(s) of a whole.

## Key Words :

- Fraction
- Numerator
- Denominator

## Explore :

- A fraction is simply a \_\_\_\_\_ problem.
- The numerator represents a \_\_\_\_\_ of a \_\_\_\_\_.
- The denominator represents the number of total \_\_\_\_\_ in the \_\_\_\_\_.

## Look deeper :

There are 5 buttons in a bag.



The total number of parts is \_\_\_\_\_, therefore \_\_\_\_\_ is the denominator.

# Common Denominator Notes

## Big Idea :

- Rewriting fractions with a common denominator allows you to easily compare two or more fractions.

## Key Words :

- Common Denominator
- Equivalent Fractions
- Least Common Denominator
- Least Common Multiple

## Equivalent Fractions Are :

- Two or more fractions that are equal.
- You can create equivalent fractions by either multiplying or dividing the numerator and denominator of a fraction by the same number.
  - For Example :**  $\frac{5}{6} = \frac{10}{12}$  because  $\frac{5 \times 2}{6 \times 2} = \frac{10}{12}$  and  $\frac{20}{6} = \frac{10}{3}$  because  $\frac{20 \div 2}{6 \div 2} = \frac{10}{3}$
  - Try It :** Write an equivalent fraction for each.

$$\frac{8}{10} = \frac{\quad}{\quad} \quad \frac{1}{5} = \frac{\quad}{\quad}$$

## Quick Review :

- Discuss with a partner. What is a least common multiple and how do you find it?

## Common Denominators

- Two or more fractions have a common denominator when the bottom number in each fraction is the same.
- If two fractions do not have a common denominator, you can find one by finding the least common multiple (LCM) of each fraction.
  - Calculating a Common Denominator :**
    - Find the least common multiple (LCM) of the two denominators.
    - Re-write each fraction using the LCM as the denominator. Don't forget to change the numerators as well using multiplication.

# Fractions & Mixed

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## Big Idea :

- Understand that a fraction can be written as an improper fraction and mixed number and how to convert between them.

## Improper Fractions to Mixed Numbers

- Divide to see how many times the denominator will go into the numerator. This will be your whole number.
- Your remainder will be your new numerator. Keep the same denominator. Simplify if needed!

➤ Example:

$$\frac{15}{6} = \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

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

# Compare and Order Fractions and Mixed Numbers Notes

## Big Idea :

- To compare and order fractions with different denominators you need to re-write them with a common denominator or use a diagram or number line.

## Key Words :

- Common Denominator
- Equivalent Fractions
- Least Common Denominator
- Least Common Multiple

## Two Methods :

### Use a Number Line :

- Plot each fraction or mixed number on a number line to compare.

Which is larger?  $\frac{3}{5}$  or  $\frac{1}{2}$



### Use a Common Denominator :

- Change each mixed number to an improper fraction.
- Find the LCM of the denominators.
- Re-write each fraction using the common denominator.

Which is larger?  $\frac{2}{3}$  or  $\frac{3}{5}$

# Fraction Concepts REFERENCE SHEET

## Key Words :

- A fraction is simply a division problem.
- The numerator represents a part of a whole
- The denominator represents the number of total parts in the whole.

## Equivalent Fractions Are :

- Two or more fractions
- You can create equivalent fractions by multiplying or dividing the numerator and denominator by the same number.

## Common Denominator:

- Two or more fractions in each fraction is the same.
- If two fractions do not have a common denominator, you can find one by finding the least common multiple (LCM) of each fraction.

### Calculating a Common Denominator :

- Find the least common multiple (LCM) of the two denominators.

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Notes



# Mixed Numbers to Improper Fractions Practice

Directions : Convert each mixed number to an improper fraction.

1.  $1\frac{1}{4}$
2.  $1\frac{3}{10}$
3.  $10\frac{1}{2}$
4.  $5\frac{2}{5}$
8.  $2\frac{5}{12}$
9.  $5\frac{7}{8}$
10.  $2\frac{1}{11}$
11.  $2\frac{2}{9}$

# Examining Fractions

Draw a line to match the fractions to the visual. Then, draw another line to connect the visual representation to the problem number, to color in the problem number, to color in the problem number.

| Fraction         |
|------------------|
| 1) $\frac{3}{2}$ |
| 2) $\frac{2}{5}$ |
| 3) $\frac{2}{3}$ |
| 4) $\frac{1}{5}$ |
| 5) $\frac{5}{3}$ |

| Visual |
|--------|
|        |
|        |
|        |
|        |
|        |

- 5 ÷ 3 → red
- 2 ÷ 5 → orange
- 3 ÷ 2 → yellow
- 1 ÷ 5 → white
- 2 ÷ 3 → green

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# Equivalent Fractions Practice

Directions : Shade each fraction wheel so it matches the given fractions. Determine whether or not the two fractions are equivalent. If they are not equal, circle the larger fraction.

1.   
 $\frac{3}{4}$  and  $\frac{10}{12}$   
equal or not equal
2.   
 $\frac{3}{6}$  and  $\frac{2}{3}$   
equal or not equal
5.   
 $\frac{1}{2}$  and  $\frac{4}{8}$   
equal or not equal
6.   
 $\frac{2}{5}$  and  $\frac{4}{10}$   
equal or not equal



# Compare and Order Fractions and Mixed Numbers Practice

In each box, place a < , > or = to compare the two fractions.

1.  $\frac{10}{2}$    $\frac{5}{2}$
2.  $8\frac{3}{4}$    $8\frac{2}{3}$
3.  $4\frac{1}{2}$    $4\frac{1}{2}$
4.  $1\frac{6}{8}$    $1\frac{29}{50}$
5.  $2\frac{1}{3}$    $2\frac{1}{3}$
6.  $2\frac{2}{5}$    $\frac{52}{30}$
7.  $1\frac{2}{3}$    $1\frac{2}{3}$
8.  $\frac{34}{18}$    $1\frac{2}{3}$

# Compare and Order Fractions Activity

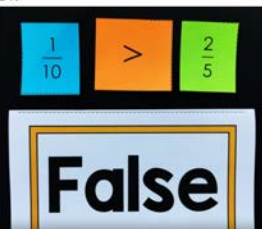
## Contents :

- ☐ Two versions of fraction cards. One with fraction wheels and one without.
- ☐ Comparison cards.
- ☐ True False Card. Print and fold in half.

## Ways to play :

### 1) Partner Play

- ☐ Give each pair a set of the fraction cards on the next page - cut.
- ☐ The deck should be split among the pair.
- ☐ Give each pair a copy of the < , > , = cards - cut.
- ☐ The comparison cards should be placed face down. The top card will be flipped. Each partner will flip his/her top card onto either side of the comparison cards. They'll then flip their TRUE/FALSE card over to reveal whether or not they believe the expression to be true.



### 2) Whole Group Play

- ☐ Cut a set of the fraction cards and just one

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# Worksheets



# Unit 4 Fraction Concepts

# EDITABLE BINDER COVER

# Unit 4

# 5<sup>th</sup> Grade Mo

# Unit 4

# 5<sup>th</sup> Grade Mo

# Unit 4

# 5<sup>th</sup> Grade Math

# 5<sup>th</sup> Grade Math



## STUDENT TRACKING

[illegible]

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# Tracking Sheets & Binder Labels

# Fractions Concepts Unit

## 5th Grade

| VOCABULARY  | OBJECTIVES   |
|---|--|
| <ul style="list-style-type: none"> <li>➤ Common Denominator</li> <li>➤ Denominator</li> <li>➤ Equivalent Fraction</li> <li>➤ Fraction</li> <li>➤ Improper Fraction</li> <li>➤ Least Common Multiple</li> <li>➤ Mixed Number</li> <li>➤ Numerator</li> </ul> | <ul style="list-style-type: none"> <li>• Recognize fraction the division of the numerator by the denominator.</li> <li>• Convert between improper fractions mixed numbers.</li> <li>• Recognize and write equivalent fraction</li> <li>• Write equivalent fraction using common denominators.</li> <li>• Compare and order fractions and mixed numbers.</li> </ul> |
| STANDARDS   |  |

Name \_\_\_\_\_ Week of \_\_\_\_\_ to \_\_\_\_\_

## Weekly Warm Up Sheet

|       |  |
|-------|--|
| Date: |  |
| Date: |  |
| Date: |  |
| Date: |  |



# Fraction Concepts Unit

## VOCABULARY

| TERM                     | DEFINITION |
|--------------------------|------------|
| Common Denominator       |            |
| Denominator              |            |
| Equivalent Fraction      |            |
| Fraction                 |            |
| Improper Fraction        |            |
| Least Common Denominator |            |
| Least Common Multiple    |            |
| Mixed Number             |            |
| Numerator                |            |

## Fraction Concepts Lesson Plan

Standard(s): \_\_\_\_\_ Date(s): \_\_\_\_\_

Student Materials:

|  |                                     |                                      |                                |
|--|-------------------------------------|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Calculator      | <input type="checkbox"/> Scissors   | <input type="checkbox"/> Compass     | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Colored pencils | <input type="checkbox"/> Glue       | <input type="checkbox"/> Graph paper | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Ruler           | <input type="checkbox"/> Protractor | <input type="checkbox"/> Dry erase   | <input type="checkbox"/> _____ |

Lesson Progression:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Fraction Concepts

## Lesson 2 : Improper Fractions and Mixed Numbers

**Suggested Time Frame : Two Days**

### Resources Included:

- Three Warm Ups
- Types of Fractions Fold and Flip Notes
- Fractions and Mixed Numbers Notes
- Simplifying Fractions and Mixed Numbers Fold and Flip Notes
- Converting Between Fractions and Mixed Numbers Worksheets (2)

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# Planning Pages