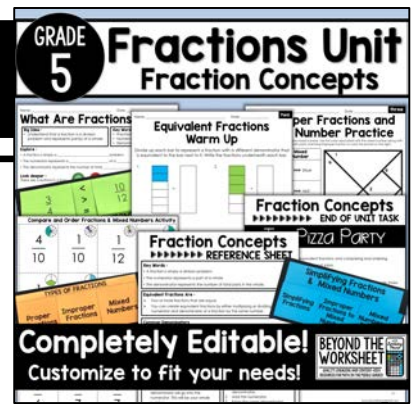


ABOUT THIS RESOURCE



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

Licensing :

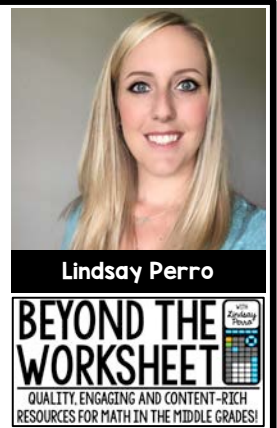
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Meet the Author :

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!



Fraction Concepts

▶▶▶ Unit Plan for 5th Grade Math

**11 DAY
UNIT**

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

PACING CALENDAR

Unit 4 : Fraction Concepts

Day 10 Topic: End of Unit Resources: <ul style="list-style-type: none"> End of Unit Task – The Pizza Party Fraction Concepts Reference Sheet 	Day 11 Topic: End of Unit Resources: <ul style="list-style-type: none"> Unit 4 Assessment
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NOTES

Unit 4 : Fraction Concepts

PACING

Day 1

Topic: Unit Prep

Resources:

- Review Unit 3 {Suggested activity – Decimal Operations Spin/Roll to Solve Game}
- Unit 4 Pre Assessment

Day 2

Topic: Visualizing Fractions

Resources:

- L1 Warm Up 1
- What are Fractions? Notes (2 pages)
- Fraction Bars Printable
- Examining Place Value Practice Worksheet

Day 3

Topic: Visualizing

Resources:

- L1 Warm Up 2
- Fractions as Div Worksheets (2 sl

Day 4

Topic: Improper Fractions and Mixed Numbers

Day 5

TALKING POINTS

Unit 4 : Fraction Concepts

Tips and Talking Points

LESSON 1 Visualizing Fractions	<ul style="list-style-type: none"> If you have fraction manipulatives (cubes, wheels, etc.) this is the perfect unit to bring them out! Let's students explore the concept of fractions by actually seeing them. Misunderstandings – Students have a hard time "seeing" parts of numbers. Relating fractions to food is the easiest way to give them a visual they are familiar with. They can all envision a slice of a pizza or a cookie broken in half.
LESSON 2 Improper Fractions and Mixed Numbers	<ul style="list-style-type: none"> Some of you don't use the term "improper fractions" so just replace that with "fractions greater than one" during instruction. When converting remind them that the denominator will always stay the same and the "remainder" becomes the numerator when converting from improper to mixed. Common Mistakes – Simple division mistakes lead to issues so encourage students to study their facts! Many also get confused on which numbers belong where when converting from improper to mixed.
LESSON 3 Equivalent Fractions	<ul style="list-style-type: none"> This is a quick lesson but such an important one! Review finding the LCM before you begin. Let students use manipulatives to explore equivalent fractions. Common Mistake – Forgetting to also multiply the numerator when rewriting fractions with common denominators. Have students think of the

Day 6

Topic: Equivalent Fractions

Resources:

- L3 Warm Up 1
- Common Denominator Notes
- Equivalent Fractions Practice Worksheet (worksheet one)

Day 9

Topic: Compare and Order Fractions and Mixed Numbers

Resources:

- L4 Warm Up 2
- Comparing Fractions Fold and Flip Notes
- Compare and Order Fractions Activity

www.beyondtheworksheet.com

Teacher Resources

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 _____

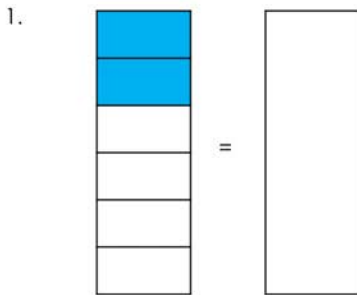
two

notebooks that are divided into

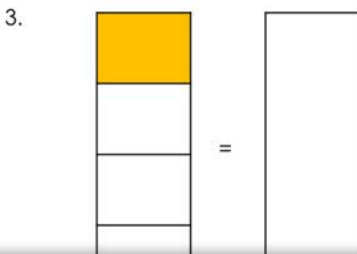
one

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.

Name _____ Date _____

one

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.

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

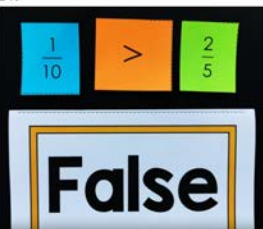
Contents :

- ☐ 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

Name _____ Date _____ Score : _____

Fraction Concepts Unit Pre Assessment

Write a fraction equivalent to the given fraction.

1) $\frac{6}{7}$ 2) $\frac{12}{15}$ 3) $\frac{2}{3}$ 4) $\frac{14}{16}$

Re-write each mixed number as an improper fraction.

5) $12\frac{1}{2}$ 6) $4\frac{2}{3}$ 7) $2\frac{4}{5}$ 8) $3\frac{1}{7}$

Score : _____

Fraction Concepts Unit End of Unit Task

The Pizza Problem

Objective :

- Use what you know about equivalent fractions and comparing and ordering fractions to determine who ate the most pizza.

The Task :

- Morgan, Trey and Emily ate pizza. Morgan ate one-fourth of a pizza, Trey ate three-eighths of a pizza and Emily ate four-twelfths of a pizza. Follow the directions on this task to determine who ate the most pizza.

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EDITABLE

Fraction Concepts End of Unit Task

3) Calculate the least common denominator for the three fractions. Re-write each fraction using the common denominator.

Morgan $\frac{\square}{\square} = \frac{\square}{\square}$ Trey $\frac{\square}{\square} = \frac{\square}{\square}$ Emily $\frac{\square}{\square} = \frac{\square}{\square}$

4) Once again shade each pizza to show how much each person ate. Divide each pizza so they have the same number of pieces.

Morgan Trey Emily

Write a fraction to represent how much each person ate.

Morgan = _____ Trey = _____ Emily = _____

Shade each pizza to show how much each person ate.

Morgan Trey Emily

Fraction Concepts Unit Assessment

15) Peter and Marcus are both getting a raise. Marcus' salary will increase by $\frac{2}{11}$ while Peter's salary will increase by $\frac{1}{8}$. Who will be getting the greater raise? Show your work.

16) Nick has three tomato plants. They are $14\frac{1}{2}$, $15\frac{2}{3}$ and $14\frac{8}{3}$ inches tall. He thinks the second plant is the tallest. Is he correct? Explain why or why not.

17) Jordan and Jeremy are twins. Jordan grew $1\frac{5}{6}$ inches in the last year and Jeremy grew $\frac{11}{8}$ inches. Who grew the most? Show your work.

Name _____ Date _____ Score : _____

Fraction Concepts Unit Assessment

Write a fraction equivalent to the given fraction.

1) $\frac{1}{3}$ 2) $\frac{10}{42}$ 3) $\frac{4}{6}$ 4) $\frac{9}{15}$

Re-write each mixed number as an improper fraction.

5) $10\frac{2}{3}$ 6) $10\frac{2}{3}$ 7) $5\frac{7}{8}$ 8) $4\frac{9}{10}$

Write each improper fraction as a mixed number.

9) $\frac{36}{7}$ 10) $\frac{36}{7}$

Write the numbers in order from least to greatest.

11) $\frac{1}{5}$ 12) $\frac{1}{7}$

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Assessments

Unit 4 Fraction Concepts

Unit 4

5th Grade Mo

Unit 4

5th Grade Mo

Unit 4

5th Grade Math

5th 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"> ➤ Common Denominator ➤ Denominator ➤ Equivalent Fraction ➤ Fraction ➤ Improper Fraction ➤ Least Common Multiple ➤ Mixed Number ➤ Numerator 	<ul style="list-style-type: none"> • Recognize fraction the division of the numerator by the denominator. • Convert between improper fractions mixed numbers. • Recognize and write equivalent fraction • Write equivalent fraction using common denominators. • Compare and order fractions and mixed numbers.
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