

Class Subject: Converting Decimals To Fractions

Learning Objectives

- Students will be able to rewrite decimals as fractions with denominators of 10 and 100.
- Students will be able to convert fractions to decimals with their place value in the tenths and hundredths.

Materials

blank paper, Pen/pencil per student, Activity sheets, Computer/device per student, Winter Wonderland packet, Device per student, pen/pencil per student

Vocabulary

- Fractions
- Decimals
- Tenths
- Hundredths
- Numerator
- Denominator

Common Mistakes

- Students don't use place value for the denominator but rather writes a one over the given digits to make the fractions.
- The student uses the wrong place value when converting between fractions and decimals.

Prior Knowledge

- Ability to identify fractions
- Knowledge of different forms of decimals
- Understanding the relationship between fractions and decimals
- Familiarity with converting fractions to decimals

Activity Overview

Blue Group

Orange Group

Purple Group

Green Group



Who's Hiding the Donut?

Collaborative Problem Solving



Math Loop Cards

Mastery Based Learning



Winter Wonderland

Structured Worksheet



Who's Hiding the Donut?

Collaborative Problem Solving



Fraction Decimal Pairs

Math Games



Fraction Decimal Pairs

Math Games



Fraction Decimal Snap

Math Games



Fraction Decimal Pairs

Math Games

Exit Ticket:

Activity Overview

<p>Decimal to Fraction Worksheet</p> <p>In this worksheet, students will practice converting decimals to fractions. (Scroll down to 'Decimal to Fraction' and click on 'Sheet 1')</p> <p>By: Math Worksheets 4 Kids</p> <p>Link: http://bit.ly/worksheet_decimaltofraction</p>	<p>Anchor Activity</p> <p>Anchor activities solve for "ragged" time, when students finish their class work early. These activities are always purposeful and either extend or review learned skills.</p>	<p>Groups:</p> <p>Print worksheet off for each student</p> <p>Materials:</p> <p>Pen/pencil per student</p>
<p>Fraction Decimal Pairs</p> <p>A memory game activity where students practice matching decimals to their fractions. Students click on the cards to find matching pairs.</p> <p>By: www.transum.com</p> <p>Link: http://bit.ly/Fraction_Decimal_Pairs</p>	<p>Math Games</p> <p>Math Games enable students to practice math skills in an engaging and playful way. Games increase student's motivation and helps associate positive math experiences</p>	<p>Groups:</p> <p>Orange,Blue,Green</p> <p>Provide link to students</p> <p>Materials:</p> <p>Computer/device per student</p>
<p>Fraction Decimal Snap</p> <p>Students play in pairs (on the same device) to match a pair of fraction and decimal.</p> <p>By: www.transum.com</p> <p>Link: http://bit.ly/Fraction_Decimal_Snap</p>	<p>Math Games</p> <p>Math Games enable students to practice math skills in an engaging and playful way. Games increase student's motivation and helps associate positive math experiences</p>	<p>Groups: Purple</p> <p>Provide link to students</p> <p>Materials:</p> <p>Device per student</p>
<p>Math Loop Cards</p> <p>In this activity, students create their own rectangular loop by converting each fraction into a decimal.</p> <p>By: Tiarra Arthur</p> <p>Link: http://bit.ly/loop_fraction_decimal</p>	<p>Mastery Based Learning</p> <p>Students are given a set of labs, problems, or activities where their progression is dependent on the successful completion of various tasks rather than seat time.</p>	<p>Groups: Orange</p> <p>Print activity sheets for each student</p> <p>Materials:</p> <p>Activity sheets, blank paper, pen/pencil per student</p>
<p>Who's Hiding the Donut?</p> <p>Students need to work in pairs to convert decimals into fractions in order to solve a riddle. Students follow instructions on the sheet to fill in the answers correctly.</p> <p>By: Mrs. J's Resource Creations</p> <p>Link: http://bit.ly/Converting_Donuts</p>	<p>Collaborative Problem Solving</p> <p>Collaborative Problem Solving can be done in small groups or in pairs where the group is given a problem to solve collectively.</p>	<p>Groups: Blue,Green</p> <p>Print worksheet off for each pair</p> <p>Materials:</p> <p>Pen/pencil per student</p>

Winter Wonderland

This activity includes an adding and subtracting fraction riddle activity, an all operation decimal activity, and an expanded form activity. Choose to give students either 1, 2 or all 3 activities.

By: [Lisa Blagus Teach at the Beach](#)

Link: http://bit.ly/winter_wonderland_fraction

Structured Worksheet

Students are given a structured worksheet to help organize their problem-solving activities that contain spaces for goals, unknowns, knowns, visual representations. Questions are served as prompts for students while solving problems

Groups: Purple

Print worksheet off for each student

Materials:

Winter Wonderland packet, pen/pencil per student

Activity List

Blue Group

1. Who's Hiding the Donut?



Split into pairs. Follow the instructions on the worksheet to convert decimals to fractions in order to solve the riddle and discover 'Who's Hiding The Donut!'

2. Fraction Decimal Pairs



Click on 'Fraction Decimal Pairs Game'. Play memory by matching cards with a fraction and its equivalent fraction.
Link to activity: http://bit.ly/Fraction_Decimal_Pairs

Decimal to Fraction Worksheet

Practice your converting fractions to decimals skills by filling out the worksheet.

Exit Ticket Link:

Orange Group

1. Math Loop Cards



Cut up the cards. Follow the instructions to create your own rectangular loop. Make sure to correctly convert the fraction into a decimal.

2. Fraction Decimal Pairs



Click on 'Fraction Decimal Pairs Game'. Play memory by matching cards with a fraction and its equivalent fraction.
Link to activity: http://bit.ly/Fraction_Decimal_Pairs

Decimal to Fraction Worksheet

Practice your converting fractions to decimals skills by filling out the worksheet.

Exit Ticket Link:

Activity List

Purple Group

1. Winter Wonderland

According to what your teacher hands you complete the Winter Wonderland packet!

2. Fraction Decimal Snap

Split into partners. Click 'Snap'. Read the instructions One player is 'Q' the other is 'P'. Use the assigned key to play snap and pair up fractions and decimals. Link to activity: http://bit.ly/Fraction_Decimal_Snap

Decimal to Fraction Worksheet

Practice your converting fractions to decimals skills by filling out the worksheet.

Exit Ticket Link:

Green Group

1. Who's Hiding the Donut?



Split into pairs. Follow the instructions on the worksheet to convert decimals to fractions in order to solve the riddle and discover 'Who's Hiding The Donut!'

2. Fraction Decimal Pairs



Click on 'Fraction Decimal Pairs Game'. Play memory by matching cards with a fraction and its equivalent fraction.
Link to activity: http://bit.ly/Fraction_Decimal_Pairs

Decimal to Fraction Worksheet

Practice your converting fractions to decimals skills by filling out the worksheet.

Exit Ticket Link: