

Unit 10 - Fractions and Decimals

Content Area: **Mathematics**
Course(s):
Time Period: **February**
Length: **3-4 weeks**
Status: **Published**

Unit Overview

Unit 10 connects with the theme of Away We Go!, which centers around aspects of transportation, such as race tracks, bus stops, post offices, and road trips. Students will learn the different aspects of fractions and decimals, and that these types of numbers can be represented using different models. When students understand these representations, they can transition more easily to understanding quantities and their relationships in problem situations.

Essential Questions

“How are fractions and decimals related?”

Content

Hands On: Place Value Through Tenths and Hundredths

Tenths

Hundredths

Hands On: Model Decimals and Fractions

Decimals and Fractions

Use Place Value and Models to Add

Compare and Order Decimals

Problem-Solving Investigation: Extra or Missing Information

Skills

Explore using place-value charts and grids to model decimals.

Model and describe tenths as part of the base-ten system.

Model and describe hundredths as part of the base-ten system.

Explore using grids and number lines to model the relationship between decimals and fractions.

Identify, read, and write tenths and hundredths as decimals and as fractions.

Use place value and equivalent fractions to add two fractions with respective denominators 10 and 100.

Compare and order decimals to hundredths by reasoning about their size.

Find extra or missing information when solving problems.

Assessments

Online Readiness Quiz

Vocabulary Check

Concept Check - Check My Progress

Chapter Test

Teacher Observation

Lessons/Learning Scenarios

MyMath Grade 4

Chapter 10: Lessons 1-8

Standards

CCSS.Math.Content.4.NF.C.5

Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.

CCSS.Math.Content.4.NF.C.6

Use decimal notation for fractions with denominators 10 or 100.

CCSS.Math.Content.4.NF.C.7

Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the

results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.

Resources

MyMath Grade 4: McGraw-Hill (2012)

- play money
- place-value charts
- tenths/hundredths grids
- number lines
- crayons or colored pencils
- fraction tiles