

# Mar. Gr 4 My Math Unit 10: Fractions and decimals

Content Area: **Math**  
Course(s):  
Time Period: **March**  
Length: **4-5 Weeks**  
Status: **Obsolete**

## Unit Overview

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Students will learn about fractions and decimals.

## Enduring Understandings

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- We can use place value to write decimals.
- We can use models to represent decimals.
- We can use place value and a number line to compare decimals.
- We can use decimal notation to represent fractions.
- We can add two fractions with denominators of 10 and 100.

## Essential Questions

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How are fractions and decimals related?

## Instructional Strategies & Learning Activities

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Suggested Pacing

Instruction	9 days
Review/Assessment	2 days
Total*	11 days

\*Includes additional time for remediation and differentiation.

Lesson	Objective	Material & Manipulatives	Vocabulary	Standard
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Lesson 1 <i>pp. 631-636</i> Hands On: Place Value Through Tenths and Hundredths	Explore using place-value charts and grids to model decimals.	<ul style="list-style-type: none"> <li>• play money</li> <li>• place-value charts</li> <li>• tenths/hundredths grids</li> </ul>	decimal tenth hundredth	4.NF.6 4.NF.7  Major Cluster  MP 2, 3, 4, 5, 6, 7 4.NF.6
Lesson 2 <i>pp. 637-642</i> Tenths	Model and describe tenths as part of the base-ten system.	<ul style="list-style-type: none"> <li>• tenths grids</li> <li>• place-value charts</li> <li>• number lines</li> </ul>		Major Cluster  MP 1, 2, 4, 6, 7 4.NF.6
Lesson 3 <i>pp. 643-648</i> Hundredths	Model and describe hundredths as part of the base-ten system.	<ul style="list-style-type: none"> <li>• tenths/hundredths grids</li> <li>• place-value charts</li> </ul>		Major Cluster  MP 1, 2, 4, 5, 6, 7, 8
<b>Check My Progress</b>				
Lesson 4 <i>pp. 651-656</i> Hands On: Model Decimals and Fractions	Explore using grids and number lines to model the relationship between decimals and fractions.	<ul style="list-style-type: none"> <li>• place-value charts</li> <li>• tenths/hundredths grids</li> <li>• number lines</li> <li>• crayons or colored pencils</li> </ul>		4.NF.5 4.NF.6  Major Cluster  MP 1, 2, 3, 4, 6, 7, 8
Lesson 5 <i>pp. 657-662</i> Decimals and Fractions	Identify, read, and write tenths and hundredths as decimals and as fractions.	<ul style="list-style-type: none"> <li>• tenths/hundredths grids</li> <li>• place-value charts</li> </ul>		4.NF.5 4.NF.6  Major Cluster  MP 2, 3, 4, 6, 8
Lesson 6 <i>pp. 663-668</i> Use Place Value and Models to Add	Use place value and equivalent fractions to add two fractions with respective denominators 10 and 100.	<ul style="list-style-type: none"> <li>• tenths/hundredths grids</li> <li>• fraction tiles</li> </ul>		4.NF.5 4.NF.6  Major Cluster  MP 1, 2, 4, 6, 8
Lesson 7 <i>pp. 669-674</i> Compare and Order Decimals	Compare and order decimals to hundredths by reasoning about their size.	<ul style="list-style-type: none"> <li>• number lines</li> <li>• place-value charts</li> <li>• tenths/hundredths grids</li> <li>• crayons or markers</li> </ul>		4.NF.6 4.NF.7  Major Cluster  MP 1, 2, 3, 4, 7
Lesson 8 <i>pp. 675-680</i> Problem-Solving Investigation: Extra or Missing Information	Find extra or missing information when solving problems.			4.NF.5 4.NF.6

**My Review and Reflect****Integration of Career Readiness, Life Literacies and Key Skills**

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WRK.9.2.5.CAP	Career Awareness and Planning
WRK.9.2.5.CAP.1	Evaluate personal likes and dislikes and identify careers that might be suited to personal likes.
WRK.9.2.5.CAP.2	Identify how you might like to earn an income.
WRK.9.2.5.CAP.3	Identify qualifications needed to pursue traditional and non-traditional careers and occupations.
WRK.9.2.5.CAP.4	Explain the reasons why some jobs and careers require specific training, skills, and certification (e.g., life guards, child care, medicine, education) and examples of these requirements.
TECH.9.4.5.CT	Critical Thinking and Problem-solving
TECH.9.4.5.CT.3	Describe how digital tools and technology may be used to solve problems.
TECH.9.4.5.DC.4	Model safe, legal, and ethical behavior when using online or offline technology (e.g., 8.1.5.NI.2).
	An individual's passions, aptitude and skills can affect his/her employment and earning potential.

**Technology and Design Integration**

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- SMARTboard technology
- Google Applications (documents, forms, spreadsheets, presentation)
- Dreambox
- Online textbook

CS.3-5.8.1.5.DA.1	Collect, organize, and display data in order to highlight relationships or support a claim.
CS.3-5.8.1.5.DA.3	Organize and present collected data visually to communicate insights gained from different views of the data.
CS.3-5.DA	Data & Analysis

**Interdisciplinary Connections**

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Leveled readers "Growing Goods in a Growing Country"

LA.RI.4.1	Refer to details and examples in a text and make relevant connections when explaining what the text says explicitly and when drawing inferences from the text.
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LA.RI.4.4	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
LA.SL.4.1	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 topics and texts, building on others' ideas and expressing their own clearly.

## **Differentiation**

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- Reteach Master
- Hands-On Activity
- Enrich Master

## **Modifications & Accommodations**

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IEP and 504 accommodations will be utilized.

Provide an outline of material to be covered

- Individualized assignments, e.g., length, number, due date, topic
- Allow student to use technology-online textbook
- Use of graphic organizers
- Use highlighter for key information
- Read directions, passages, and word problems aloud as needed-online presentation
- Use of calculator and matrix for multiplication and division
- Provide textbook in audio format
- Demonstrate directions and procedures/give examples

## **Benchmark Assessments**

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- Diagnostic
- Aimsweb
- End of Year Assessment

## **Formative Assessments**

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Check My Progress

-My Chapter Review

-Homework Practice

-Independent Practice

## **Summative Assessments**

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Chapter 10 Assessment

## **Instructional Materials**

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See instructional materials listed above.

## **Standards**

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MATH.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.

MATH.4.NF.C.6

Use decimal notation for fractions with denominators 10 or 100.

MATH.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.