

# P.Cert.Gr.5 My Math Unit 9: Adding and Subtracting Fractions

Content Area: **Math**  
Course(s):  
Time Period: **March**  
Length: **4-6 Weeks**  
Status: **Published**

## Unit Overview

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This unit explores strategies to use when adding and subtracting fractions.

## Enduring Understandings

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It is important to remember and apply certain strategies when adding and subtracting fractions.

## Essential Questions

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What strategies can be used when adding and subtracting fractions?

## Instructional Strategies & Learning Activities

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### Chapter 9

### Pacing Guide Suggested Pacing

Instruction	14 days
Review/Assessment	2 days
Total*	16 days

\*Includes additional time for remediation and differentiation.

Lesson	Objective	Material & Manipulatives	Voc:
Lesson 1 <i>pp. 613-618</i> <b>Round Fractions</b>	Use number lines and benchmark fractions, such as $\frac{1}{2}$ , to round fractions.	<ul style="list-style-type: none"><li>• number lines</li><li>• small classroom objects, including pencils and erasers</li></ul>	

- rulers

Lesson 2 *pp. 619-624*

**Add Like Fractions**

Add like fractions and solve word problems involving the addition of like fractions.

- fraction tiles

**like  
frac**

Lesson 3 *pp. 625-630*

**Subtract Like Fractions**

Subtract like fractions and solve word problems involving the subtraction of like fractions.

- dry-erase boards
- dry-erase markers
- fraction tiles

Lesson 4 *pp. 631-636*

**Hands On: Use Models to Add Unlike Fractions**

Use models to add unlike fractions.

- fraction tiles

**unli  
frac**

Lesson 5 *pp. 637-642*

**Add Unlike Fractions**

Add unlike fractions and solve word problems involving the addition of unlike fractions.

- fraction tiles
- number lines
- two-color counters

**Check My Progress**

Lesson 6 *pp. 645-650*

**Hands On: Use Models to Subtract Unlike Fractions**

Use models to subtract unlike fractions.

- fraction tiles
- index cards

Lesson 7 *pp. 651-656*

**Subtract Unlike Fractions**

Subtract unlike fractions and solve word problems involving the subtraction of unlike fractions.

- fraction tiles

Lesson 8 *pp. 657-662*

Solve problems by determining

**Problem-Solving Investigation:** reasonable answers.  
**Determine Reasonable Answers**

Lesson 9 *pp. 663-668*  
**Estimate Sums and Differences** Use number sense and benchmark fractions to estimate sums and differences. • number lines

**Check My Progress**  
Lesson 10 *pp. 671-676*  
**Hands On: Use Models to Add Mixed Numbers** Explore adding mixed numbers using models. • fraction circles

Lesson 11 *pp. 677-682*  
**Add Mixed Numbers** Add mixed numbers and solve word problems involving the addition of mixed numbers. • fraction tiles

Lesson 12 *pp. 683-688*  
**Subtract Mixed Numbers** Subtract mixed numbers and solve word problems involving the subtraction of mixed numbers. • fraction tiles  
• play money

Lesson 13 *pp. 689-694*  
**Subtract with Renaming** Use fraction equivalence to subtract with renaming. • fraction circles  
• fraction tiles

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### **Integration of 21st Century Themes and Career Exploration**

Students will work in cooperative groups to solve problems. Students will interact with the Smartboard to

enhance the learning process.

CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

## **Technology Integration**

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Students will interact with the Smartboard to enhance the learning process. Students will use various web-based, interactive sites to expand the content as needed.

## **Interdisciplinary Connections**

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Students read and write throughout the whole unit.

LA.RL.5.4	Determine the meaning of words and phrases as they are used in a text, including figurative language such as metaphors and similes.
LA.RI.5.10	By the end of year, read and comprehend literary nonfiction at grade level text-complexity or above, with scaffolding as needed.
LA.RF.5.4	Read with sufficient accuracy and fluency to support comprehension.
LA.RF.5.4.A	Read grade-level text with purpose and understanding.
LA.RI.5.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.

## **Differentiation**

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Differentiation:

- Use of different resources to match the readiness levels of the students when working on the activities in the daily lessons.
- Respond to students' needs for reteaching, reinforcing, and extending learning.
- Use of a variety of instructional strategies to engage students in learning.
- Question prompts to promote student engagement
- Small group settings as needed for specific skills
- Use discussion to promote collaboration among students
- Integrate technology to offer varied learning experiences
- Adjust instruction based on formative tasks/assessments

## **Modifications & Accommodations**

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Modifications & Accommodations:

- In class support and scaffolding based on the individual IEP's
- Independent levels on My Math and Splash Math

## **Benchmark Assessments**

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Students will complete the AimsWeb testing.

## **Formative Assessments**

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Formative Assessments:

- Task completion
- Answers and discussions
- Student maps
- Bingo
- Quizzes
- Participation

## **Summative Assessments**

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Summative Assessments:

- Quizzes
- Final Test

## **Instructional Materials**

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My Math Textbook series grade 5

See materials in lessons above

## Standards

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MA.5.NF.A.1

Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.

MA.5.NF.A.2

Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.