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Length: 4-6 Weeks Status: Obsolete

Unit Overview

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

Enduring Understandings

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

Essential Questions

What strategies can be used when adding and subtracting fractions?

Instructional Strategies & Learning Activities

Chapter 9

Pacing Guide Suggested Pacing

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

Lesson

Lesson 1 pp. 613-618
Round Fractions

Objective

Use number lines and benchmark fractions, such as , to round fractions.

Material & Manipulatives

Vocabı

• number lines

• small classroom objects, including pencils and erasers

^{*}Includes additional time for remediation and differentiation.

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. d	• fraction tiles	unlike fraction
Lesson 5 pp. 637-642 Add Unlike Fractions	Add unlike fractions and solve word problems involving the addition of unlike fractions.	fraction tilesnumber linestwo-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 tilesindex cards	
Lesson 7 pp. 651-656 Subtract Unlike Fractions	Subtract unlike fractions and solve word problems involving the subtraction of unlike fractions.	l • fraction tiles	

Lesson 8 pp. 657-662 Solve problems by determining **Problem-Solving Investigation:** reasonable answers. **Determine Reasonable Answers**

Lesson 9 pp. 663-668

Use number sense and benchmark

• number lines

Estimate Sums and Differences fractions to estimate sums and

differences.

Check My Progress

Lesson 10 pp. 671-676 Explore adding mixed numbers using • fraction circles

Hands On: Use Models to Add models.

Mixed Numbers

Lesson 11 pp. 677-682 Add Mixed Numbers

Add mixed numbers and solve word problems involving the addition of

fraction tiles

Lesson 12 pp. 683-688 **Subtract Mixed Numbers**

Subtract mixed numbers and solve word • fraction tiles problems involving the subtraction of • play money

mixed numbers.

mixed numbers.

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

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.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP5	Consider the environmental, social and economic impacts of decisions.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP9	Model integrity, ethical leadership and effective management.
CRP.K-12.CRP11	Use technology to enhance productivity.
CRP.K-12.CRP12	Work productively in teams while using cultural global competence.

Technology Integration

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

Interdisciplinary Connections

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.5.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.
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.

Differentiation

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

Modifications & Accommodations:

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

Benchmark Assessments

Students will complete the AimsWeb testing.

Formative Assessments

Formative Assessments:

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

Summative Assessments

Summative Assessments:

- Quizzes
- Final Test

Instructional Materials

My Math Textbook series grade 5

See materials in lessons above

Standards

MA.5.NF.A.2

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.

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.