

Envisions Mathematics 5th Grade Lesson Plan

Topic 7: Use Equivalent Fractions to Add and Subtract Fractions

Lesson 7-1: Estimate Sums and Differences of Fractions

ESSENTIAL QUESTION: How can you estimate the sum of two fractions?

Objective: Students will be able to estimate sums and differences of fractions by using the nearest half or whole number.

Look Back and This Lesson: In Grade 4, you learned how to use benchmark fractions to compare, how to place fractions on the number line, and how to add and subtract fractions with the common denominator. In this lesson, we will use a number line to decide whether a given fraction is closer to 0, $\frac{1}{2}$, or 1, then use these approximations to estimate the sum or difference of two fractions.

CCSS.MATH.CONTENT

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.

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.

Vocabulary

Benchmark fraction

Solve and Share

- To introduce the skill, as a whole class, engage students in the **Workbook** (page 2) and **Problem Set** (page 3).
- Have students read the problem and figure out what the pieces should be to get closest to 1 yard of string without finding the exact amount.
- Remind students to use reason. You can use number sense to estimate the answer.
- Have students explain how the strategy works.

Modeling and Learning Bridge

Teacher says out loud and “think” out loud the steps being taken to solve the problem.

- Teacher reads problem aloud.
- Teacher models how to estimate the sum of two fractions, while thinking aloud. “I am thinking, how I can estimate the sum of 2 fractions. First, I will place each fraction on the nearest half or whole number on a number line to make it easy to decide if the fraction is closer to $\frac{1}{2}$, or 1. Next, I will add to find the estimate.”

Conference Me:

- Have students read what **Joel** says and tell if he is correct. Give an example of your explanation.

Guided Practice

- Have students in the activity **Estimate Sums and Differences of Fractions** (page 4).
- Have students solve problem 4 by solving the problems and using a number line to tell which fraction is closest to 0, $\frac{1}{2}$, or 1, then estimate the sum or difference.
- Have students explain their work.

Independent Practice

- Students will work independently to estimate sums and differences of fractions by using the nearest half or whole number.

Differentiation:

Intervention

1. **Use Visual Fraction Models** – Provide fraction bars or circles to help students see why $\frac{1}{3}$ is closer to $\frac{1}{2}$ than to 1; Example: Use fraction strips to estimate $\frac{1}{3} + \frac{1}{4}$ by comparing to benchmarks like 0, $\frac{1}{2}$, or 1.
2. **Benchmark Number Line** – Give targeted practice rounding fractions to the nearest 0, $\frac{1}{2}$, or 1; Example: Match fractions like $\frac{1}{3}$, $\frac{3}{10}$, and $\frac{2}{5}$ to their closest benchmark before estimating sums.
3. **Sentence Frames for Estimation Reasoning** – Provide structured prompts for explaining thinking; Example: “I rounded ___ to ___ because it is closer to ___. My estimated answer is about ___.”

4. Intervention Activity in Workbook: “Estimate Sums and Differences of Fractions”

Enrichment

1. **Create Real-World Estimation Scenarios** – Have students write word problems where exact answers aren’t needed and estimation is more practical; Example: Estimate how many cups of flour are needed for baking multiple batches when each batch uses $\frac{2}{3}$ cup.
2. **Compare Estimation Strategies** – Ask students to estimate the same problem using two different benchmarks or methods and evaluate which is more accurate; Example: Estimate $\frac{3}{8} + \frac{5}{6}$ by rounding to 0, $\frac{1}{2}$, or 1 and justify the choice.
3. **Justify Reasonableness of Estimates** – Present estimation problems followed by exact sums or differences, and have students explain whether the estimate was reasonable; Example: “The estimate of $\frac{3}{4} + \frac{5}{8}$ is $1\frac{1}{2}$ —is that a good estimate? Why or why not?”

Lesson Plans For Fifth Grade Go Math

J Spring



Lesson Plans For Fifth Grade Go Math:

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