Adding and Subtracting Fractions

Performance Task Objectives

- Add fractions with like and unlike denominators
- Subtract fractions with like and unlike denominators
- Estimate sums and differences of mixed numbers
- Add and subtract mixed numbers with like and unlike denominators
- Solve problems that involve number sense

Sunshine State Standards

- MA.A.1.2.2
- MA.A.3.2.1
- MA.A.3.2.2
- MA.A.3.2.3

Materials

- Student recording sheet
- Customary measuring tapes or yardsticks
- Calculator (optional)

Student arrangement

- Small group

Task

Present the problem on the student Recording Sheet to your students.

Performance Criteria

- Is the student able to determine different fractional amounts needed for an individual recipe?

- Does the student add or subtract correctly?

- Does the student reasonably determine the amount of snack mix needed for the whole class?

Name _____

Solve this problem:

Congratulations! Your class has just won first place in your school's Olympic Field Day. For the celebration treat, each student will be allowed to make **one cup** of snack mix to eat.

You may select from these ingredients: coconut, raisins, marshmallows, chocolate chips, cereal, and peanuts.

1. Choose 3 ingredients from the above list. Write a recipe for 1 cup of snack mix you would like for yourself. Use fractions, but *do not use equal amounts* of any ingredients.

2. Now write a recipe for a class of 24 students, using **all** ingredients, but **different amounts** of each ingredient. Only 1 ingredient may be a whole number.

3. **OOPS!!** Someone is allergic to peanuts; therefore, peanuts will not be included in the recipe for the class. Now, what would be the total number of cups of snack mix without the peanuts?