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?
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?