Prompt: Create word problems using arithmetic operation on fractions. Create 5 easy, 5 moderate, 5 difficult problems.
Prompt2: Solve all these problems

Do these (write using pen; don't type) following the steps we described in class. Use variables to describe different parts of the problem, and the solution in terms of those variables (Eg: solution for problem 1) . And then compute the values. Include units of measurement in each step.

Easy

1. Sarah ate 1/4 of a pizza, and John ate 1/8 of the same pizza. What fraction of the pizza did they eat altogether?

   Amount Sarah ate X = ¼ pizza

   Amount John ate Y = ⅛ pizza

   Amount they both ate = X + Y =(¼ + ⅛) pizza = ⅝ pizza

   Fraction of pizza they ate = ⅝ of pizza, so fraction is ⅝

2. A recipe calls for 1/3 cup of sugar. If you want to make half the recipe, how much sugar do you need?

3. Tom has 2/5 of a candy bar. He gives 1/5 of the candy bar to his friend. How much of the candy bar does Tom have left?

4. A water bottle is 3/4 full. If you drink 1/4 of the water in the bottle, how much water is left?

5. A garden is divided into 6 equal parts. If 1/6 of the garden is used for tomatoes and another 1/6 is used for peppers, what fraction of the garden is used for vegetables?

Moderate

1. Mary walked 2 1/2 miles on Monday and 1 3/4 miles on Tuesday. How many miles did she walk in total?

2. A baker has 5 1/3 cups of flour. A recipe requires 2 2/3 cups of flour. How much flour will the baker have left after making the recipe?

3. John has 3/5 of an acre of land. He wants to divide it into 4 equal parts. What fraction of an acre will each part be?

4. A paint can is 7/8 full. If you use 1/3 of the paint in the can, what fraction of the can will be left?

5. A construction team is building a road that is 10 miles long. They have completed 4 2/3 miles. How many more miles do they need to complete?

Difficult

1. A tank is 3/5 full of water. If 1/3 of the water is removed, what fraction of the tank is still full?

2. A recipe calls for 2 1/4 cups of flour and 1 1/2 cups of sugar. If you want to triple the recipe, how many cups of flour and sugar will you need in total?

3. A piece of wood is 8 1/2 feet long. It needs to be cut into pieces that are 1 1/4 feet long. How many pieces can be cut from the wood?

4. A farmer has 7/8 of his land planted. He plants 2/3 of the planted area with corn. What fraction of the total land is planted with corn?

5. A group of students is working on a project. 1/4 of the students work on research, 2/5 work on design, and the rest work on testing. What fraction of the students work on testing?