Extending CGI to the Upper Grades and Aligning to Common Core

How many slices of pizza can be made from ¾ of a pizza if each slice is 1/8 of a pizza?

If Mary has brings ½ of a pizza to the party and Ben brings 1/3 of a pizza. How much of a whole pizza do they have together?

Suppose you have a large piece of fish that weights 5 pounds. You want to cut the fish into smaller fillets weight 2/3 pound each. How many fillets can you cut?

Tom is sawing boards. There is a stack of 16 boards. Each board is 8 feet long. He is cutting sections that are ½ ft. long. He saws at a rate of 2 boards every minute. How long would it take him to saw all 16 boards? How man sections would Tom get from all the boards?

A school cook needs to pour 2 ¾ gallons of milk into half-gallon pitchers to serve different tables of children. How many pitchers will she need for the milk?

Tickets to a fair cost $4 for adults and $2 for children. What is the total cost of tickets for 5 adults and 3 children?

How much will each person receive if 3 cookies are shared among 4 people?

A recipe calls for ¾ cup sugar. You have the following measuring cups: 1 cup, ½ cup, 1/3 cup, ¼ cup, 1/8 cup, and a tablespoon (which is 1/16 cup). Record at least 8 different ways to measure ¾ cup.

The running time on a movie is listed as 2.6 hours. Tanya says that means it will last 2 hours and 6 minutes. Is she right? Explain why or why not.

Caitlin ate ¾ of a pizza. Janet ate 1/8 of the same pizza. Who ate more? How much more?

A cake has been cut into thirds for you and your two brothers. Then your friend comes over. You share your portion with your friend. What fraction of the entire cake did your friend get?

The Food Warehouse sells hamburger in large packages of 3 ½ pounds. You want to serve quarter pound burgers at a party. How many burgers can you make from the hamburger?

You jogged ¾ mile yesterday and 1 1/8 mile today. How far did you jog all together? How much farther did you job today than yesterday?

A toy is on sale for ¼ of its original price of $8.00. How much money will you save?

You have 8 candy bars left over from a party. Your bratty brother took a bit out of each of the candy bars thinking that you then would give all the candy to him. If he ate ¼ of each candy bar, how many candy bars did he eat in all?

Analise earns 50 cents a month. How much money will she have at the end of one year?

Suppose there is a drive to collect 10,000 cans for a recycling program at school. Various classrooms have collected the following number of cans: 3,496; 843; 2,654; and 4,398. Without

adding the numbers with paper and pencil. Has the school met its goal of collecting 10,000 cans?

Michelle is making cookies. The recipe calls for 3 cups of flour. However, the only measuring cup Michelle has is a ¾ cup juice glass. How many juice glasses of flour should Michelle use?

Tony and Henry both entered a fishing contest. Tony's fish weighed 2.8 pounds and Henry's fish weighed 0.95 pounds. Whose fish weighed more and by how much?

At a party, several large pizzas were ordered.   Jake, John, and Josh each ate a different kind of pizza. Jake ate 1/3 of a pepperoni pizza; John ate 4/8 of a veggie pizza, and Josh at 3/5 of a cheese pizza. Who ate the most pizza? Explain how you know.

A cake recipe calls for you to use ¾ cup of milk, ¼ cup of oil, and 2/4 cup of water. How much liquid was needed to make the cake?

In a relay race, each runner runs ½ of a lap. If there are 4 team members how long is the race?

Heather bought 12 plums and ate 1/3 of them. Paul bought 12 plums and ate ¼ of them. Which statement is true?
    a. Heather and Paul ate the same number of plums.
    b. Heather ate 4 plums and Paul ate 3 plums
    c. Heather ate 3 plums and Paul ate 4 plums.
    d. Heather had 9 plums remaining.

A relay race lasts 4.65 miles. They relay team has 3 runners. If each runner goes the same distance, how far does each team member run? Make an estimate, find you actual answer, and then compare them.

Your teacher gave you 1/7 of the bag of candy. She also gave your friend 1/3 of the bag of candy. If you and your friend combined your candy, what fraction of the bag would you have?

Your teacher gives 7 packs of paper to your group of 4 students. If you share your paper equally, how much paper does each student get?

Three-fourths of the class is boys. Two-thirds of the boys are wearing tennis shoes. What fraction of the class are boys with tennis shoes?

There are 2 ½ busloads of students standing in the parking lot. The students are getting ready to go on a field trip. 2/5 of the students on each bus are girls. How many busses would it take to carry only the girls?

You have 1/8 of a bag of pens and you need to share them among three people. How much of the bag does each person get?

How many 1/3-cup servings are in 2 cups of raisins?

At Books Unlimited, 3 paperback books cost $18. What would 7 books cost? How many books could be purchased with $54?

In Trail Mix, the ratio of cups of peanuts to cups of chocolate candies is 3 to 2. How many cups of chocolate candies would be needed for 9 cups of peanuts?

Susan has 2/3 of an hour left to make cards. It takes her about 1/6 of an hour to make each card. About how many can she make?

A recipe calls for ¾ teaspoon of butter for every 2 cups of milk. If you increase the recipe to use 3 cups of milk, how many teaspoons of butter are needed?

Games Unlimited buys video games for $10. The store increases the price 300%. What is the price of the video game?