

Lesson Title: Lunch at McDonald's

Grade: 2nd

Content Standard: 2.OA.1 Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g. by using drawing and equations with a symbol for the unknown value to represent the problem.

2.MD.8c Solve word problems by adding and subtracting, within 100, dollars with dollars and cents with cents (not using dollars and cents simultaneously) using the \$ and c symbols appropriately (not including decimal notation).

Materials: Laminated hamburger, French fries, and drinks pictures. Menu with prices for hamburger, French fries, and drinks as a classroom poster or projector page. Set of 5 story problems. Play money one dollar bills.

Shared experience and procedure details: Divide class into groups of 4 students. Arrange a table at front/center of room. Group 1 goes to table while other groups observe. Read first story problem and have group 1 students act it out to answer the question, physically exchanging pictures of food items for dollar bills. When they have an answer, question other groups about how they did it and whether or not they agree. Repeat procedure with other groups, using a different story problem each time. When all group have acted out a problem return everyone to their seats, and give each group paper, dollar bills, and food pictures. Pose to the class a new problem. Ask each group to solve the problem. When the groups have a solution give every student in the group a 5 step lesson form and ask each student to draw a picture and write about how the problem was solved.

Possible Picture: Picture may show drawings of all the purchasers and the food they each purchased. The pictures may also include dollar values for the items purchased either as individual dollar pictures or numbers that represent the number of dollars. Pictures may use symbols to replace purchasers (initials?). Pictures may exclude purchasers and instead show the aggregate collection of food purchased with dollars or dollar amount attached.

Possible People Talk: We counted all the hamburgers and gave each one a "3"..... We put the food next to each kid and then wrote the dollars needed next to each piece of food. Then we counted the dollars. We added how much the food would cost each kid and then added those numbers together.

Feature Talk: hamburgers, french fries, drinks, dollars, money, food, McDonald's, food pictures, play money, add, count, exchange, buy, names of purchasers in problem, store clerk, total cost, sell, prices, menu

Possible Symbolic Representation:

A picture symbol may be created to represent each individual food item and dollars. These may be repeated to represent multiple copies or used in conjunction with a number. A symbol may be created to show the exchange of food for dollars or their equivalence. Numbers may be used to represent cost of individual or multiple copies of a food item and the total cost. A symbol may be created to represent addition of cost of different items.

Otero, Reinthal 1/17/17

Note: Menu with prices and story problem on following pages.

Associated story problems:

1. Sue, Bill, and George stop at McDonald's to eat. Sue orders 2 hamburgers and a drink. Bill orders 1 hamburger, 2 french fries, and a drink. Fred orders 3 french fries and 2 drinks. They each count out the money they need for their orders and pay the cashier. How much did all three of their orders put together cost?

2. Sue is getting lunch for herself and her two friends Bill and Fred. All three want a hamburger and a drink, but only Sue and Fred want French fries. How much will this purchase cost?

3. Sue, Bill, and Fred go to McDonald for lunch. Sue orders 2 french fries. Bill orders 2 hamburgers and a drink. Fred orders 2 hamburgers, a French fry, and a drink. How much money will all this food cost?

4. Sue runs into McDonald's and orders 3 hamburgers, 3 french fries, and 3 drinks. How much will this order cost?

5. Bill, Sue, and Fred together have 16 dollars. They all are really hungry. How many hamburgers can they buy with that much money?

6. Bill, Sue, and Fred see that there is a new item at McDonald's called a McPizza burger. They all decide to try one so they order three of them. They are told by the counter clerk that it will cost them 12 dollars to buy three. How much did each McPizza burger cost?

McDonald's Menu

Hamburger	\$3
French Fries	\$2
Drink	\$1





