



6: George's Place



OBJECTIVE:

Students will solve story problems involving money. They will use higher level critical thinking skills to develop their own strategies for solving the problems.



MATERIALS:

- Assorted coins (real coins, play money, or paper coins copied from the reproducible coin sheets (pages 29-32))
- Bags or other containers to hold the money
- Math manipulatives (optional)
- "George's Place Menu" (page 24)
- "Let's Eat at George's!" work page (page 25)
- Paper and pencil



PREPARATIONS:

- Make copies of the "George's Place Menu" (page 24).
- Make copies of the "Let's Eat at George's!" work page (page 25).
- Place similar quantities of money in eight or more bags (or however many groups you'll want to have). Bags should have enough money for the students in each group to order meals from "George's Place."
- Organize students into groups.



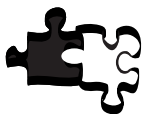
GROUPING:

- Small groups (2-3)



CLASS TIME:

- 1 class period



CONNECTIONS:

- Math
- Language Arts
- American Cultural Studies



TERMS and CONCEPTS:

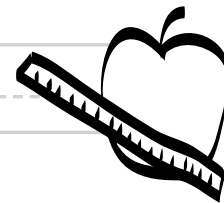
- Change
- Addition
- Subtraction
- Decimals



ANSWER KEY

"Let's Eat at George's!" (page 25)

1. \$11.49
2. Part 1: \$23.00
Part 2: \$18.00
Part 3: \$ 4.60
3. Part 1: 4
Part 2: \$58.96
4. Yes: 2 slices



Using Critical Thinking Skills to Solve Problems



STEPS:

1. Hand out a copy of "George's Place Menu" (page 24) and "Let's Eat at George's!" (page 25) to each student. Explain to students that they should pretend that they are eating at an American Diner called "George's Place." (See if students can figure out the meaning behind the restaurant's name.) Read the menu together and discuss the meaning behind some of the foods' names.
2. Organize students into groups and give each group one bag of money. Each small group should work together to count their money, determining how much can be spent on dinner. The groups will be "dining" together with only that amount of money, so they will need to work together to ensure that everyone is able to order a meal.
3. Once students have counted their money and confirmed the amount with the teacher, they may begin ordering their meals. Instruct students to write down what they will be eating and the cost on the top portion of their "Let's Eat at George's!" work page (page 25).
4. Once everyone has decided on what they would like to eat and calculated the cost, the groups will need to add the amounts together to see if they have enough money. If they do, they can proceed. If they do not, they will need to make adjustments to their orders.
5. Once students have completed the first activity, have them complete the rest of the work page, solving the story problems using "George's Place Menu."
6. When everyone has finished, ask groups to share what they ordered, the cost, and how much they had left over (if any). Go over some strategies used in solving these money problems. To assess learning, look for both correct answers and strategies that show solid mathematical thinking.



ENRICHMENT/EXTENSIONS:

Have students create a menu for their own restaurant. Students can trade menus and order from one another's restaurants.

Have students write their own money story problems to challenge other members of the class.

Do a follow-up lesson using Pigs will be Pigs¹, by Amy Axelrod.

1.) Axelrod, Amy. *Pigs will be Pigs*. New York: Four Wind Press, 1994.



George's Place

A N A M E R I C A N D I N E R

Breakfast

- Pancakes with *Vermont* maple syrup \$5.75
- New York* Apple Muffin served with apple butter or jelly \$1.25

Appetizers & Salads

- New Jersey* Garden Salad with *Texas* ranch dressing \$2.25
- Connecticut* Oysters served on the half-shell \$6.80
- Wisconsin* Cheese & Crackers \$3.45

Entrées

- Catch of the Day.** Your choice of *Kentucky* spotted bass or *New Hampshire* brook trout \$12.60
- Rhode Island* Red Hen roasted with herbs \$11.85
- Delaware* Blue Hen Chicken Pot Pie \$9.40
- Maryland* Blue Crabs steamed with Old Bay seasoning \$10.50
- Maine* Lobster with drawn butter \$14.20

Sandwiches & Pizza

- Virginia* Baked Ham Sandwich \$5.99
- Peanut Butter and *North Carolina* Honey Sandwich \$2.95
- Philadelphia Cheesesteak, a *Pennsylvania* favorite \$5.50
- South Carolina* Barbecue Sandwich \$4.65
- New York*-Style Pizza 8 slices \$10.99

Sides

- North Carolina* Sweet Potato \$0.90
- Massachusetts* Corn Muffin \$1.25
- New York* Applesauce \$0.60
- Idaho* Potato Salad \$2.50
- Iowa* Corn-on-the-Cob \$0.70

Desserts

- Georgia* Peach Cobbler \$3.00
- North Carolina* Box Turtle Brownie \$2.30
- Massachusetts* Boston Cream Pie \$3.35

Beverages

- State Soda.** Your choice of *California* Grape or *Georgia* Peach flavor \$1.00
- Wisconsin* Milk \$1.00
- Florida* Orange Juice \$1.75
- Massachusetts* Boston Tea Party—hot tea with lemon for four people \$4.00



Let's Eat at George's!

DIRECTIONS:

Record what you will be ordering from "George's Place" and how much each item will cost. Then add the total cost for your meal. When everyone in your group has finished ordering, add all totals to make sure you have enough money. If you do, "Buon Appetito!" If not, you will need to rethink what you are ordering and try again.

Receipt

MY ORDER:

1. _____

Cost\$ _____

2. _____

Cost\$ _____

3. _____

Cost\$ _____

4. _____

Cost\$ _____

MY TOTAL:\$ _____

TOTAL COST OF MY GROUP'S MEAL:

Cost\$ _____

Did you have enough?

YES, how much? _____

NO, we'll have to do dishes!

Now solve these money story problems using the menu from "George's Place." (Show your work on scratch paper.)

1. How much money will you need to order Virginia baked ham sandwich, Idaho potato salad, and Georgia peach cobbler for dessert?

2. **PART 1:** You and three friends go to "George's Place" for breakfast. You each order pancakes with Vermont maple syrup. How much money will that cost?

PART 2: You brought \$10.25 each. How much change will you get back?

PART 3—CHALLENGE: You want to leave a 20% tip. How much will that be?

3. **PART 1:** Your soccer team stopped at "George's Place" for some pizza after the big game. A New York-style pizza has 8 slices. There are 15 of you and you each want 2 pieces. How many pizzas will you need to order?

PART 2: Each pizza costs \$10.99 and everyone orders a soda for \$1.00. How much will your meal cost?

4. Will there be any slices of pizza left over?

NO

YES, how many? _____