



Marvelous Math

BOOST Conference

Presentation

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Marvelous Math

- Dr. Debra Ferguson
- Mr. Bilal Hasan
- Mr. Contrell Armor

Harrisburg School
District

2101 N. Front Street

Harrisburg, PA 17110



How to Contact Us

- Dr. Ferguson

dferguson@hbgasd.k12.pa.us

- Mr. Hasan

bihasan@hbgasd.k12.pa.us

- Mr. Armor

carmor@hbgasd.k12.pa.us

Our Program



- Math Works-21st CCLC
- Grades 4-8
- Two Buildings in the District
- Approximately 150 students

Components of our Program

- One Hour of Academic Tutoring in Mathematics
- Small group instruction
- Problem Solving
- Computer-Assisted Instruction
- Community Based activities including math
- Positive Math experiences
- Higher Order Thinking Skills



Scenes from our Program



Activity # 1

PICK THREE NUMBERS ACTIVITY

- Objective: To increase number sense and practice math calculations and problem solving

8

2

56

Mathematical Calculations and Problem Solving

1. Multiply the three numbers you have selected.
2. Select the highest number and subtract the lowest number.
3. Make up three math problems using your numbers and multiplication, addition, subtraction, and division.

Word Problems

- Create a word problem using the three numbers you used to describe you.



Word Problem Example

- 8, 2, 56

- Example of Problem:

A teacher placed 8 students in a small group. Each student was permitted to raise his/her hand 2 times each day. In the space below describe two possible scenarios where the students would raise their hands 56 times in a week.

Activity # 2

What's for lunch?



- Have each student work with a partner.
- Tell them they are going out to lunch with two other people.
- They have \$40.00 to spend on their group of four.

Menu

- Using the diner menu, purchase items for lunch staying under \$40.00



Brain Extensions

- Give students a different amount of money.
- Use the same amount of money and ask them to calculate tax and tip.
- Have students develop their own problem using the menu.
- Ask students to develop their own menu where the items are all less than \$6.00.

Culminating Activity

- Use the cafeteria in your school and set it up as a restaurant.
- Provide the students with a set amount of paper money.
- Allow them to “buy” items with their money.



Activity # 3

Classified Math



- Have students use the classified section of the newspaper to do a variety of activities.
- Students should work in partners or in small groups.

Classified Math Continued

1. Calculate the average price of a 2002 Honda Accord.
2. Calculate the average rent for a two bedroom apartment.
3. Calculate the median salaries for secretarial jobs in the area.
4. Calculate the average price of a boxer puppy.

Backtrack

- For older students a modified classified section activity could be developed.
- Have students determine the cost of living for a full year in a two bedroom apartment.
- Have students determine the cost of a car for the year.
- Have students select a job from the classified section which would cover their costs including a 33% reduction for taxes each year.

Questions



Math is Marvelous!

