

MAT.1420 – Mathematics for Elementary Teachers I
Extended Response Problem Solving III

Name _____ Date _____

Your response for this problem will be assessed using the ISAT scoring rubric: Mathematical Knowledge, Strategic Knowledge, and Explanation. Be sure to assess your own work before submitting it in class. Submit your polished solution on this paper (use back if necessary).

Barack, Michelle, Malia, and Sasha go to the Pizza House to celebrate Sasha's birthday. They can't agree on what kind of pizza to order so they order three small pizzas – one each of pepperoni, cheese, and mushroom.

- Barack and Michelle both like pepperoni, but neither Malia nor Sasha does.
- Michelle, Malia, and Sasha agree to share the cheese pizza. Barack doesn't want any cheese pizza.
- All four are willing to eat the mushroom pizza.

Show how the pizzas will be shared fairly (each person gets the same amount of pizza). Explain your strategy and answer the questions below.

a. How much of a pizza does each person eat in all? _____

b. How much of all the pizza does each person eat? _____

c. How much of the cheese pizza does Malia get? _____

d. Write a number sentence showing how much pizza each person eats.

Barack: _____

Michelle: _____

Malia: _____

Sasha: _____