Mathletes Problem of the Week #1

Welcome Back Puzzlers

a) Amir and Blanca play rock, paper, scissors ten times on the first day of school. Amir plays rock three times, scissors six times, and paper once. Blanca plays rock twice, scissors four times, and paper four times. The order they played them in is not known, but none of the games was a tie. Can you tell who won and by how many games?

b) Josh was drawing shapes during his first math class. On his paper Josh drew 19 rectangles, 15 rhombuses, and 7 squares. Remember that all squares are both rectangles and rhombuses. And all rhombuses and rectangles are parallelograms. How many parallelograms did Josh draw?

c) In science, Kayla was weighing different objects in the room. The combined weight of 2 identical dice, 5 identical balls and 4 identical marbles was 260 grams. The combined weight of one die and one marble was 55 grams. And 3 balls weighed the same as two dice. What was the total weight (in grams) of one die, one ball, and one marble?

Solutions & Explanations: (Try one or try them all! Record your solutions and explanations below and on the back.)

Name _____   Class _____

(First and last name, please!)   **Solutions due: September 19th**