Take home quiz:

Your answers should be in complete sentences, and on a separate sheet of paper.

1. Explain the distinctions between Join, result unknown and Part-Part-Whole, part unknown problem types (how do you know which is which). Include at least one example of a Join and a Part-Part-Whole problem. Tell which of the problem types is more difficult.

2. Explain the distinctions between separate, result unknown and a part-part-whole, part unknown problem (how do you know which is which). Include at least one example of a Separate and a Part-Part-Whole problem. Tell which of the problem types is more difficultg.

3. Explain the difference between Measurement and Partition division (how do you know which is which). Include at least one example of a Measurement and a Partition division problem. Explain how a problem of each of these types can be solved using direct modeling.

Do 2 of the following

5. Explain what it means to use problem solving to teach a math concept, give an example of this from our class, and explain how problem solving helped to teach the math concept.

6. Explain what reasoning and proof should look like at the elementary level. Give an example of an example of a problem or activity from this class that incorporated reasoning and proof.

7. Give an example of a connection between different topics in mathematics from our class.

8. Give an example of a problem from our class where using multiple representations contributed to understanding or solving the problem. State specifically what the multiple representations were.