Name:	Math 211 POW One
Name:	Math 211 POW Or

## **FORMAT**

- Write neatly and clearly on white paper (lined or unlined)
- Attach a POW cover sheet to the front of your work for turn in

Before starting your problem solving process:

- ✓ Refer to your POW directions (Math 211 Problem of the Week Directions)
- ✓ Read all of the directions given here
- 1. Use Polya's four steps ONE TIME and answer the following three problems:
  - a. The Problem Opener for Section 1.3, page 37 in your Conceptual Approach text.
  - b. Extension One for the Problem Opener for Section 1.3:

Solve the original problem with the following change. Replace the 3/4 brick by a 1/3 brick; assume there is still a whole brick on one side and on the other side there is now 1/3 of a brick and a 3/4 pound weight. The scale is balanced.

c. Extension Two for the Problem Opener for Section 1.3:

Solve the original problem with the following change. Replace the 3/4 pound weight by a 1 3/4 pound weight; assume there is still a whole brick on one side and on the other side there is now 3/4 of a brick and a 1 and 3/4 pound weight. The scale is balanced.

As you work, explain the problems <u>without formal algebra</u> and explain the problems with formal algebra. You may weave these two complimentary ideas into the four steps as you like.