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 *without formal algebra* and explain the problems with formal algebra. You may weave these two complimentary ideas into the four steps as you like.