

Multi-Step Problems

Objectives: Solve multi-step problems using an organized approach, and select additional strategies; verify and interpret results with respect to the original problem; use calculators as appropriate; 2.9 – Apply 1.18 to geometry, spatial visualization, and measurement.

Materials: (**Problem Solver's Guide & Multi-step Problems Worksheet**), graph paper, pencil,

Procedure: In problem solving, it might be helpful to think about solutions and answers as two different things. An answer is the final result to a problem, while a solution presents both the answer and the strategy by which it was found.

- These are rather simple problems, but students who have "problems" with word problems will find them challenging enough, yet they will be able to be successful.
- I would suggest that you and the student work each problem together, remembering that: *The most important thing you can do for your student is constantly ask him/her to explain how and why they are doing what they are doing. It is also helpful to have students underline important words in the problem, or underline the question. REMEMBER! Let the student do all of the "work". Your job is to GUIDE them toward the solution.
- Included with this lesson is a suggested problem solver's guide for you to follow.
- Ask the student: "What is the problem?" Students will need more verbal guidance with this type problem.
- Then help the student decide what to do to solve the problem. Perhaps ask questions like: "What is the first thing you need to find out? Would you add, subtract, multiply, or divide? Then ask what do you need to do with this information in order to completely solve the problem?" If the student is having problems visualizing the problem, draw pictures.
- These problems are two step problems, so you will have to walk the student through the process. Always ask what do you need to know? What do you need to do to find out?

Answer Key

1. 2700 packages
2. 3 months
3. 12 balls
4. 15
5. 4970 grams
6. 213 inning