Word Problems



What makes word problems hard?

- No clear strategy on how to get started
- Not familiar with vocabulary and how it translates
- Not trained in how to distinguish important from unimportant information

How to Approach Word Problems?

Tools

Reading strategies



Problem solving strategies



Activities

- Word problems basic steps
- Structural group activity
- TAPPS

Steps in Solving a Word Problem

- 1. Identifying relevant information. Read the problem ca
- 2. Planning. teps involved in solving the problem.
- **3. Computing**. Solve the problem based on your plan.
- Answering. Interpret the result from the computation and check if the answers make sense. Include units (if applicable)

Focus: Identifying Relevant Information

- Students often jump into the problem computation without taking the time to extract the full information
- Skills to be practiced:
 - Assign variables to unknown quantities
 - Identify what the problem asks you to do
 - Translate the English sentences into mathematical equations

Thinking Aloud Pair Problem Solving

- One student is the problem solver and says out loud whatever goes on in his/her mind, making visible the thinking process
- The other student is the listener, whose main job it is to keep the other student going, asking for clarification, and questioning when there is a =n error (without pointing out the error)
- Involves meta cognition, and the listener asks the questions that one should ask oneself while doing a problem

TAPPS Example 1

Figures 1 through 4 form a series that changes in a systematic manner according to some rule. Try to discover the rule and choose from among the alternatives A - E the figure that should occur next in the sequence.



TAPPS Example 2

In a different language **luk eir lail** means "heavy little package", **bo lail** means "heavy man", and **luk jo** means "pretty package". How would you say "little man" in this language? (Wimby and Loachhead, 1986, p. 121)