

Reading a Mathematics Problem

- 1) **Student Read-aloud with Questioning:** Students read the problem out loud while the teacher stops to ask questions about vocabulary to clarify the problem
- 2) **Physical Event/Talking about Experiences:** Students share experiences related to the problem or actually recreate the event
- 3) **Draw a Picture of the Problem:** Students draw a picture of what is happening in the problem – notice what features are preserved and what is ignored
- 4) **Use Intuitive Language to Restate the Problem:** Discuss and write about what is happening in your own words
- 5) **Move to Structured Language:** Bring the mathematics vocabulary out of the problem
- 6) **Symbolic Representation:** Students create a symbolic representation – standard mathematical notation is shared at an appropriate time