

LCISD PROBLEM SOLVING

3 READS PROTOCOL

The 3 Reads Protocol helps students visualize problems, contextualize the numbers, and distinguish between necessary and extra information.

1. **Read for context:** *What is the story about?*

Draw a model that could represent the story and label the parts of the model.

2. **Read to understand the quantities and their relationships:** *What are the numbers in the story? What do they mean? How are they related?*

Carefully place the numbers from the story into the model.

3. **Read to determine what mathematical questions we could answer:** *What mathematical questions could we answer using the information in this problem?*

Brainstorm questions that could be asked.

4. **Solve:** *Does your model represent the story? What strategies can you use to solve?*

Provide the question for the problem. Verify that the model created accurately depicts the story. Solve and justify your answer.

5. **Check:** *Is your solution reasonable?*

Evaluate your answer.

PS STRATEGIES

1. Draw a Picture
2. Make a Model
3. Make a List
4. Make a Chart or Table
5. Look for a Pattern
6. Act it Out
7. Work Backwards
8. Guess and Check
9. Use Logical Reasoning
10. Find a Pattern or Rule
11. Write a Number Sentence
12. Write an Equation
13. Use Objects
14. Simplify the Problem
15. Estimate