Eucalyptus Lesson Plan



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The Task

99% of the trees in our neighborhood are eucalyptus trees. The town planning commission wants to get rid of some of these trees because they spread too quickly. However, the people in my neighborhood like the trees. The commission argues that their new eucalyptus tree removal plan will cut down so few eucalyptus trees that 98% of the trees in our neighborhood will be eucalyptus trees. If the plan only involves removing eucalyptus trees, what percent of the existing tress in my neighborhood would the plan remove?

Materials	Facilitating Task
The Task	• Launch the task by reading it aloud.
Calculators	 Clarify the task as needed by asking
Grid Paper	students to retell the story and
Poster Paper (one sheet per	identify what's known and unknown.
group)	 Provide individual think time, so
	students can process and begin solving.
	• Small groups (4 students maximum)
	compare strategies and solutions. After
	reaching consensus, small groups record
	solution and justification on Poster
	Paper.
	 Each group shares their solution and justification.
	 The teacher asks questions to
	support students in connecting the strategies shared and the mathematical ideas highlighted.

 Misconceptions Students might use an additive approach instead of multiplicative reasoning. For example, students might think that only 1% of the Eucalyptus trees will be removed because 98% is one percent less than 99%. Students might have difficulty figuring out that the number of non-Eucalyptus trees remains constant. Students might have trouble keeping track of the whole, especially since the number of trees originally in the neighborhood is not given. 	 Suggested Prompts or Questions How is this problem similar to other problems you might have solved? What's staying the same and what's changing? How might you represent this situation?