An Apple a Day

Lesson Plan Adapted from the Lesson Study by: Cindy Cooper George Mason University, COMPLETE Math Fall 2015



The Task

Have you ever heard someone say, "An apple a day keeps the doctor away"? At a local grocery store, you can buy a bag of 8 apples for \$5.00. If everyone in your family ate one apple every day, how much money would your family spend in one year on apples?

Matorials	Eacilitating Task
Water lais	Facilitating Task
 Extra paper for students to 	 Although the task is written for
sketch out ideas	individual students to consider their
 Manipulatives, such as cubes or chips 	 Individual students to consider their own respective families, you could allow students could work with a partner. Students will need to consider their own family size, and the number of days in a year in order to answer the question. As students work, circulate around the class, listening for places students may be stuck, and for strategies you may want to be shared with the class Whole class discussion: Select a few students to share their approaches. Because student family sizes vary, call attention to the strategies used to
	deparatize methods regardless of
	generalize methous regardless of
	tamily size.

	Misconceptions	Suggested Prompts or Questions	
•	Students may need to discuss that different family sizes will result in different answers, since many problems they have experienced have only one answer. Students may have trouble coordinating quantities and keeping track of what each number represents in the context of the problem (apples, bags, money, days) Students may have different approaches (focusing on apples, bags, or money) and may struggle to understand someone else's approach when sharing with the whole group.	 Supporting thinking: How many people are in your family? How will you use that information? What have you done so far? What will you need to figure out next? How will you know if your answer makes sense? Extending thinking: What if there were_people in your family? How could you use what you've already figured out to solve that problem quickly? What can we say about the cost per person to eat "an apple a day"? 	
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