

Background

Imagine you are teaching a math lesson to a class of 16 second grade students. The purpose of this lesson is to examine the ways properties of operations can be used to add numbers.

You have asked the students to work with a partner to solve the problem $27 + 23$ using any method that works best for them. The partners have completed their work. Now you plan to select 3 individual students to present their work to the class.

Look at the strategies below and the descriptions of the students. Then choose which three students you would like to have present.

The Problem

$$27 + 23$$

Learning Goal

Your goal is for the students to be able to understand how properties of operation can be used to add numbers.

- You want the students to understand that two numbers can be added in any order (commutative property).
 - Example: $3 + 4 = 4 + 3$
- You also want the students to understand that 3 numbers can be regrouped and added in any order (associative property).
 - Example: $9 + (1 + 7) = (9 + 1) + 7$