

In this activity, you will have students solve the problems on the **Acting It Out** activity sheet. Display the first problem and select four volunteers to act out the solution in front of the class. Pass out a name from the **Math Name** sheet (Sum Sleuth, Difference Maker, Logic Leader, Number Cruncher) to each student volunteer.

If they are having trouble solving the problems, ask for suggestions from the rest of the class.

While solving the problems, ask students to point out what information in each problem is not necessary.

MATERIALS:

- Math Names sheet
- Acting It Out activity sheet



Math Names

Sum Sleuth

Difference Maker

Logic Leader

Number Cruncher

Acting it Out

Problem 1

Sum Sleuth, Difference Maker, Logic Leader and Number Cruncher are standing in line for a carnival ride. Sum Sleuth is standing between Logic Leader and Number Cruncher. Logic Leader is not last. Number Cruncher is first. Difference Maker is eating an ice cream cone. In what order are the friends standing?

Problem 2

Sum Sleuth, Difference Maker, Logic Leader and Number Cruncher are going on a field trip. Sum Sleuth's backpack is the heaviest. Difference Maker's backpack is not the lightest. Logic Leader's backpack is orange. Number Cruncher's backpack is heavier than Difference Maker's, but lighter than Sum Sleuth's. Put the students in order from the one with the lightest pack to the one with the heaviest pack.

Problem 3

Sum Sleuth, Difference Maker, Logic Leader and Number Cruncher are playing a game together at family math night. Sum Sleuth is 6 years old. Difference Maker is in 2nd grade. Logic Leader is older than Sum Sleuth. Number Cruncher is the same age as Sum Sleuth. Difference Maker is the oldest by one year. What are the ages of each of the students?

Problem 4

Sum Sleuth, Difference Maker, Logic Leader and Number Cruncher shared some pieces of candy. Sum Sleuth got 1 less piece than child Logic Leader. Sum Sleuth was the youngest child. Difference Maker got 2 pieces. Logic Leader got one more than Difference Maker. Number Cruncher got as much as Sum Sleuth and Difference Maker combined.