

# Bundles of Books

## Lesson Plan

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### The Task

Nate's grandma bought him 4 new books to read. She spent \$38, and each book cost the same amount of money. Nate wants to return one of the books to the store. How much money will he get back?

Nate is a fast reader! He can read 4 books in one hour. If he has 38 books to read, how many hours will it take him to read them all?

#### Materials

- The tasks copied front to back
- Paper
- Scissors
- Money Manipulatives (bills and quarters)
- Unifix cubes
- Large presentation paper
- Markers

#### Facilitating Task

- This task can be completed individually or in small groups of 3-4 students.
- Read the task together and answer clarifying questions.
- Make materials available to the students/groups.

*If students work in groups:*

- Give students individual think time before coming together.
- Each group will record the group's thinking and solution on the large presentation paper. They will present their findings to the class.

*If students work individually:*

- After solving, pair students to discuss and share strategies for 5-10 minutes.
- Select between 4 and 6 students with unique solution strategies to share with the class.
- Allow 15-20 minutes for sharing and connections.
- Begin with the most concrete strategy and move to the most abstract strategy. Ask questions to highlight connections between strategies.
- Wrap up the lesson with a discussion of these questions: How are these problems the same? How are they different? As a class, record observations about the role of remainders in division.

**Misconceptions**

- Dollars can't be split.
- He'll have to round up to the next hour.
- There are 50 minutes in half an hour.
- You can drop the remainder in either case.
- The two solutions are unrelated.

**Suggested Prompts or Questions**

- How can we find out how much each book cost?
- Is there a way to split the last two dollars?
- How many cents are in half of a dollar?
- How long will it take him to read the last two books?
- How long does it take him to read one book?
- How are these problems the same?
- How are they different?