

Bundles of Books

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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?

Big Ideas

- The role of remainders in division situations
- The relationship between division and fractions
- The relationship between fractions and decimals

Standards of Learning for Grades 3-4-5

- 3.3a The student will name and write fractions represented by a model.
- 3.6 The student will represent division, using area, set and number line models.
- 4.2c The student will identify the division statement that represents a fraction.
- 4.4c The student will divide whole numbers, finding quotients with and without remainders.
- 5.2a The student will recognize and name fractions in their equivalent decimal form and vice versa.
- 5.4 The student will create and solve single-step and multistep practical problems involving division with and without remainders of whole numbers.
- 5.5b The student will solve single step practical problems involving decimals.

Standards of Learning for Grades 6-7-8

Process Goals

- Problem Solving and Reasoning – Students will apply an understanding of division to solve the problems. Students will use logical reasoning to determine what to do with the remainder in each case.
- Connections and Representations – Students will recognize and use connections between multiplication and division, as well as connections between fractions and decimals to solve the problems. They will use a variety of representations as they solve and communicate their thinking.
- Communication – Students will justify their findings and present their results to the class with precise mathematical language.

Related Task – Fun at the Fair

- Mrs. Hoffmann brings her 6 children to the fair. She buys a big box of 45 mini-donuts for the children to share equally. How many mini-donuts will each child get?
- The children are ready to go on the fair rides! Mrs. Hoffmann buys a bag of 45 ride tokens for the children to share equally. If each ride costs one token, how many rides can each child enjoy?

Related Task – Party Time

- Andrew is planning a surprise birthday party for his dad. Sixty people will be at the party, and each table will seat 8 people. How many tables does Andrew need?
- Andrew has 60 balloons to use for decorating the tables. If he wants every table to look exactly the same, how many balloons will be at each table?