Unit 6, Lesson 20

Interpret Remainders in Division Situations

Let's solve problems involving division and interpret remainders.

Activity 1

Hearts and Seats

1. Two artists paint 378 wooden hearts. They sell the hearts in boxes of 4.
   - The first artist says they will need 94 boxes for all the hearts.
   - The second artist says 95 boxes are needed.

   Who do you agree with? Explain or show your reasoning.

2. An auditorium seats 258 people. The seats are arranged in rows of 9, but there is one short row with fewer than 9 seats.

   How many rows of 9 seats are there? How many seats are in the shorter row?

Activity 2

Save for a Garden

1. A school needs $1,270 to build a garden. After saving the same amount each month for 8 months, the school still needs $6.

   How much did they save each month? Explain or show your reasoning.

2. Choose one of the following division expressions.

   $711 \div 3$ $3{,}128 \div 8$

   a. Write a situation to represent the expression.

   b. Find the value of the quotient. Explain or show your reasoning.

   c. What does the value of the quotient represent in your situation?