

Unit 4 Lesson 9: How Much in Each Group? (Part 2)

1 Number Talk: Greater Than 1 or Less Than 1? (Warm up)

Student Task Statement

Decide whether each quotient is greater than 1 or less than 1.

$$\frac{1}{2} \div \frac{1}{4}$$

$$1 \div \frac{3}{4}$$

$$\frac{2}{3} \div \frac{7}{8}$$

$$2\frac{7}{8} \div 2\frac{3}{5}$$

2 Two Water Containers

Student Task Statement



1. After looking at these pictures, Lin says, "I see the fraction $\frac{2}{5}$." Jada says, "I see the fraction $\frac{3}{4}$."
What quantities are Lin and Jada referring to?

2. Consider the problem: How many liters of water fit in the water dispenser?
 - a. Write a multiplication equation and a division equation for the question.
 - b. Find the answer and explain your reasoning. If you get stuck, consider drawing a diagram.
 - c. Check your answer using the multiplication equation.

3 Amount in One Group

Student Task Statement

Write a multiplication equation and a division equation and draw a diagram to represent each situation. Then, find the answer and explain your reasoning.

1. Jada bought $3\frac{1}{2}$ yards of fabric for \$21. How much did each yard cost?
2. $\frac{4}{9}$ kilogram of baking soda costs \$2. How much does 1 kilogram of baking soda cost?
3. Diego can fill $1\frac{1}{5}$ bottles with 3 liters of water. How many liters of water fill 1 bottle?

4. $\frac{5}{4}$ gallons of water fill $\frac{5}{6}$ of a bucket. How many gallons of water fill the entire bucket?

4 Inventing Another Situation (Optional)

Student Task Statement

1. Think of a situation with a question that can be represented by $\frac{1}{3} \div \frac{1}{4} = ?$. Describe the situation and the question.
2. Trade descriptions with a partner.
 - Review each other's description and discuss whether each question matches the equation.
 - Revise your description based on the feedback from your partner.
3. Find the answer to your question. Explain or show your reasoning. If you get stuck, consider drawing a diagram.

Activity Synthesis

