Unit 3, Lesson 11

Divide Unit Fractions by Whole Numbers

Let's divide a unit fraction by a whole number.

Warm-up

Number Talk: Half the Dividend, Same Divisor

Find the value of each expression mentally.

- $72 \div 4$

- $36 \div 4$

- $4 \div 4$

- $2 \div 4$

Activity 1

More Macaroni and Cheese

Jada and her 2 sisters equally share $\frac{1}{2}$ a pan of macaroni and cheese.

1. Draw a diagram to represent the situation.

2. Explain how this expression represents the situation: $\frac{1}{2} \div 3$

3. How much of the whole pan of macaroni and cheese does each person get?

Activity 2

More People Share

1. 4 people equally share $\frac{1}{2}$ a pan of macaroni and cheese.

   a. Draw a diagram to represent the situation.

   b. Explain how your diagram represents $\frac{1}{2} \div 4$.

   c. How much of the whole pan of macaroni and cheese does each person get?

2. 5 people equally share $\frac{1}{2}$ a pan of macaroni and cheese.

   a. Draw a diagram to represent the situation.

   b. Explain how your diagram represents $\frac{1}{2} \div 5$.

   c. How much of the whole pan of macaroni and cheese does each person get?

3. How are the problems alike? How are they different?