

# Lesson 14: Represent Division of Whole Numbers by Unit Fractions

## **Standards Alignments**

Addressing 5.NF.B.7.b

## **Teacher-facing Learning Goals**

- Divide a whole number by a unit fraction.
- Relate diagrams, situations and expressions that represent division of a whole number by a unit fraction.

## **Student-facing Learning Goals**

 Let's solve problems involving division of a unit fraction by a whole number.

## **Lesson Purpose**

The purpose of this lesson is for students to solve problems involving division of a unit fraction by a whole number and write equations to represent them.

In the previous lesson, students solved problems involving division of a whole number by a unit fraction. In this lesson, students continue to find quotients of a whole number by a unit fraction. In this lesson, however, they find the value of expressions without being provided a tape diagram. The numbers are not too large, however, so they may still draw a diagram if it is helpful. In the second activity, students look simultaneously at expressions involving quotients of a whole number by a fraction and quotients of a fraction by a whole number.

#### Access for:

### Students with Disabilities

Action and Expression (Activity 1)

#### **Instructional Routines**

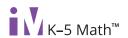
MLR7 Compare and Connect (Activity 1), Number Talk (Warm-up)

#### **Lesson Timeline**

Warm-up 10 min

## **Teacher Reflection Question**

Reflect on times you observed students listening to one another's ideas today in class. What



Activity 1	20 min	norms would help e their classmates' ide
Activity 2	15 min	
Lesson Synthesis	10 min	
Cool-down	5 min	

norms would help each student better attend to their classmates' ideas in future lessons?

**Cool-down** (to be completed at the end of the lesson)

© 5 min

Solve and Match the Expression

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# **Student-facing Task Statement**

- 1. A package has 2 cups of raisins. Each serving of raisins is  $\frac{1}{4}$  cup.
  - a. Does this situation match the expression  $2 \div \frac{1}{4}$  or  $\frac{1}{4} \div 2$ ? Explain or show your reasoning.
  - b. How many servings of raisins are there in the package? Explain or show your reasoning.

# **Student Responses**

- 1. a.  $2 \div \frac{1}{4}$  since the 2 cups is being divided into servings that are each  $\frac{1}{4}$  cup.
  - b. 8. Sample response: each cup has four  $\frac{1}{4}$  cup so that's 8 total.