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

### Standards Alignments

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| --- | --- |
| 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

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| Warm-up | 10 min |
| Activity 1 | 20 min |
| Activity 2 | 15 min |
| Lesson Synthesis | 10 min |
| Cool-down | 5 min |

### Teacher Reflection Question

Reflect on times you observed students listening to one another’s ideas today in class. What 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) 5min

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.
	1. Does this situation match the expression $2÷\frac{1}{4}$ or  $\frac{1}{4}÷2$? Explain or show your reasoning.
	2. How many servings of raisins are there in the package? Explain or show your reasoning.

### Student Responses

* 1. $2÷\frac{1}{4}$ since the 2 cups is being divided into servings that are each $\frac{1}{4}$ cup.
	2. 8. Sample response: each cup has four $\frac{1}{4}$ cup so that’s 8 total.