# Lesson 24: Divide Decimals by Whole Numbers

### Standards Alignments

|  |  |
| --- | --- |
| Addressing | 5.NBT.B.7 |

### Teacher-facing Learning Goals

* Divide decimals to hundredths by whole numbers

### Student-facing Learning Goals

* Let’s divide decimals by whole numbers.

### Lesson Purpose

The purpose of this lesson is for students to divide a decimal less than 1 by a whole number.

In previous lessons students divided a whole number by a decimal less than 1, using place value understanding and the relationship between multiplication and division. The purpose of this lesson is to apply these ideas to find quotients of a decimal less than 1 by a whole number. Students work with diagrams and also think about place value, relating these quotients of a decimal by a whole number to whole number quotients.

### Access for:

###  Students with Disabilities

* Representation (Activity 1)

###  English Learners

* MLR8 (Activity 2)

### Instructional Routines

Estimation Exploration (Warm-up)

### Materials to Copy

* Small Grids (groups of 1): Activity 1

### Lesson Timeline

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

### Teacher Reflection Question

What opportunities are you giving students to reflect on their understanding of the mathematical content?

## Cool-down

(to be completed at the end of the lesson) 5min

Divide Decimals by Whole Numbers

### Standards Alignments

|  |  |
| --- | --- |
| Addressing | 5.NBT.B.7 |

### Student-facing Task Statement

Find the value of each expression. Explain or show your reasoning.

1. $0.9÷3$
2. $0.09÷3$
3. $0.8÷5$

### Student Responses

1. 0.3. There are 9 tenths so that's 3 groups of 3 tenths.
2. 0.03. There are 9 hundredths so that's 3 groups of 3 hundredths.
3. 0.16. There are 80 hundredths so that's 5 groups of 16 hundredths.