

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

Teacher Reflection Question

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

Lesson Synthesis 10 min

Cool-down 5 min

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

 5 min

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Student-facing Task Statement

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

1. $0.9 \div 3$
2. $0.09 \div 3$
3. $0.8 \div 5$

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.