Lesson 12: Estimate and Add

Standards Alignments

Addressing 5.NBT.B.7

Teacher-facing Learning Goals

- Add decimals to the hundredths place using strategies based on place value.

Student-facing Learning Goals

- Let's add decimals and think about whether our answers are reasonable.

Lesson Purpose

The purpose of this lesson is for students to estimate and find the value of addition expressions with decimals.

In a previous lesson, students found decimal sums in a way that made sense to them. In this lesson, students see that the standard algorithm for whole number addition, familiar from a previous course, also works for decimals. Students then estimate sums and find their values. Students are not required to use the standard algorithm, but see how it is an efficient way to add.
Display the Decimal Addition chart from a previous lesson to be used during the lesson synthesis.

Access for:

Students with Disabilities

- Representation (Activity 2)

Instructional Routines

MLR1 Stronger and Clearer Each Time (Activity 1), Number Talk (Warm-up)

Lesson Timeline

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

Teacher Reflection Question

What did you say, do, or ask during the lesson synthesis that helped students be clear on the learning of the day? How did understanding the cool-down of the lesson before you started teaching today help you synthesize that learning?

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

5 min

Sums of Decimals

Standards Alignments

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Student-facing Task Statement

Find the value of $3.45 + 21.6$. Explain or show your reasoning.

Student Responses

25.05. Sample responses:

- $21 + 3 = 24, 0.40 + 0.60 = 1.00, 24 + 1 = 25, 25 + 0.05 = 25.05$
- $$\begin{array}{r} {\scriptstyle 1} \\ 3.45 \\ +\ 21.60 \\ \hline 25.05 \end{array}$$