Unit 5, Lesson 13

# Analyze Addition Mistakes

Let's use place value strategies to add decimals.

Warm-up

## Estimation Exploration: Many Places

$$1{,}987.89 + 658.54$$

Record an estimate that is:

| too low | about right | too high |
|---|---|---|
| | | |

Activity 1

## Compare Calculations

1. Find the value of $621.45 + 72.3$. Explain or show your reasoning.

2. Elena and Andre try to find the value of $621.45 + 72.3$. Who do you agree with? Explain or show your reasoning.

Elena

$$\begin{array}{r} 621.45 \\ +\ \ 72.3 \\ \hline 628.68 \end{array}$$

my answer makes sense because it is more than 621.

Andre

$$\begin{array}{r} 621.45 \\ +\ 72.30 \\ \hline 693.75 \end{array}$$

My answer makes sense because 620 + 70 = 690 and then I still have to add a little bit more than 3 to 690.

Activity 2

## Same Digits, Different Sums

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

1. $2.63 + 7.74$

2. $26.3 + 774$

3. $46.3 + 31.42$

4. $463 + 3.14$