

# 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 |
|---------|-------------|----------|
|         |             |          |

## 13.1: Compare Calculations

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

2. Elena and Andre found 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.

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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.

## 13.2: 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.  $463 + 3.14$