

Lesson 15: Estimate and Subtract

- Let's use place value to subtract decimals.

Warm-up: Number Talk: One and Five Tenths

Find the value of each expression mentally.

- $1.50 - 0.51$

- $1.50 - 0.52$

- $1.50 - 0.60$

- $1.50 - 0.62$

15.1: Revisit the Algorithm

1. Find the value of $8.53 - 2.7$. Show your reasoning.

2. Han used the standard algorithm to subtract decimals. This is Han's work. Describe what Han did in each step.

Step 1	Step 2	Step 3
$\begin{array}{r} 8.53 \\ - 2.7 \\ \hline .3 \end{array}$	$\begin{array}{r} \overset{7}{\cancel{8}}.\overset{15}{\cancel{5}}3 \\ - 2.7 \\ \hline .83 \end{array}$	$\begin{array}{r} \overset{7}{\cancel{8}}.\overset{15}{\cancel{5}}3 \\ - 2.7 \\ \hline 5.83 \end{array}$

3. Use the standard algorithm to find the value of $6.62 - 3.71$.

15.3: Compare Calculations to Evaluate a Difference

- Find the value of $622.35 - 71.4$. Explain or show your reasoning.

- Elena and Andre found the value of $622.35 - 71.4$. Who do you agree with? Explain or show your reasoning.

Elena

$$\begin{array}{r} 6\cancel{2}\cancel{2}.35 \\ - \quad 71.4 \\ \hline 615.21 \end{array}$$

my answer makes sense because
615.21 is less than 622.35.

Andre

$$\begin{array}{r} \overset{5}{6}\overset{12}{\cancel{2}}\overset{1}{\cancel{2}}\overset{13}{3}5 \\ - \quad 71.40 \\ \hline 550.95 \end{array}$$

My answer makes sense
because $620 - 70 = 550$. So my
answer should be right around 550.