Unit 5, 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.

- $1.50 - 0.51$
- $1.50 - 0.52$
- $1.50 - 0.60$
- $1.50 - 0.62$

Activity 1

Revisit the Algorithm

1. Find the value of $8.53 - 2.7$. Explain or show your reasoning.

2. Han uses the standard algorithm to subtract decimals. Describe what he does 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 $6.62 - 3.71$.

Activity 2

Estimate and Subtract

1. Which whole number is the difference $15.27 - 4.3$ closest to? Explain or show your reasoning.

2. What is the value of $15.27 - 4.3$? Explain or show your reasoning.

3. Which whole number is the difference $16.14 - 9.8$ closest to? Explain or show your reasoning.

4. What is the value of $16.14 - 9.8$? Explain or show your reasoning.

Activity 3

Compare Calculations for a Difference

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

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

Elena

$$\begin{array}{r} 6\overset{1}{\cancel{2}}\overset{1}{\cancel{2}}.35 \\ -\quad 71.4 \\ \hline 615.21 \end{array}$$

my answer makes sense because 615.21 is less than 622.35.

Andre

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

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