



# 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

- Find the value of  $8.53 - 2.7$ . Explain or show your reasoning.
- Han uses the standard algorithm to subtract decimals. Describe what he does in each step.

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

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- 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

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

my answer makes sense because  
 $615.21$  is less than  $622.35$ .

Andre

$$\begin{array}{r} \overset{5}{6}\overset{12}{\cancel{2}}\overset{1}{\cancel{2}}\overset{13}{.35} \\ - 71.40 \\ \hline 550.95 \end{array}$$

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