

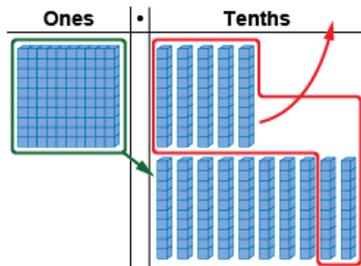
# Activity 29 Assessment

## Estimating Sums and Differences with Decimals

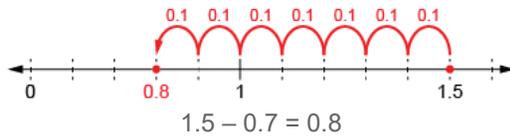
### Conceptual Meaning of Addition and Subtraction of Decimals

Recognizes addition and subtraction situations and models concretely or pictorially to add or subtract to tenths

$$1.5 - 0.7 = ?$$



"15 tenths - 7 tenths = 8 tenths"



Uses an understanding of place value to add or subtract decimals with tenths (using standard algorithm)

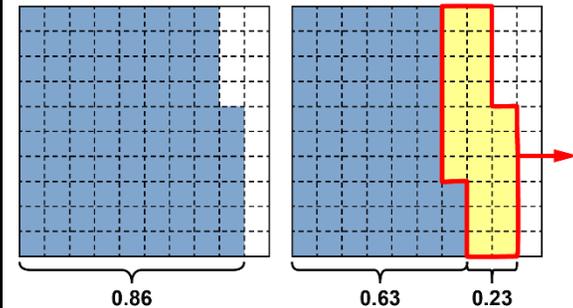
$$14.6 + 27.8 = ?$$

$$\begin{array}{r} 1 \ 1 \\ 14.6 \\ + 27.8 \\ \hline 42.4 \end{array}$$

"I used the standard algorithm, adding the tenths, then the whole numbers."

Models concretely or pictorially to add or subtract decimals with hundredths (e.g., using hundredths grids or Base Ten Blocks)

$$25.86 - 17.23 = ?$$



"86 hundredths - 23 hundredths = 63 hundredths  
 $25 - 17 = 8$ "

$$25.86 - 17.23 = 8.63$$

### Observations/Documentation

# Activity 29 Assessment

## Estimating Sums and Differences with Decimals

### Conceptual Meaning of Addition and Subtraction of Decimals (cont'd)

Uses an understanding of place value to add or subtract decimals with hundredths (e.g., using standard algorithm)

$$\begin{array}{r} 1\ 1 \\ 25.86 \\ - 17.23 \\ \hline 8.63 \end{array}$$

"I used the standard algorithm to subtract the hundredths, then the tenths, and then the whole numbers."

Uses estimation and mental math strategies to check reasonableness of solutions

$$\begin{array}{l} 25.86 - 17.23 = 8.63 \\ 26 - 17 = 9 \end{array}$$

"8.63 is the answer I calculated, and it is close to 9, so my answer is reasonable."

Solves addition and subtraction problems flexibly, using a variety of strategies

A yoyo costs \$7.35.  
Jesse paid for it with \$10.  
How much change did Jesse get back?

$$\begin{array}{l} \$7.35 + \$0.15 = \$7.50 \\ \$7.50 + \$0.50 = \$8.00 \\ \$8.00 + \$2.00 = \$10.00 \\ \$2.00 + \$0.50 + \$0.15 = \$2.65 \end{array}$$

$$\begin{array}{r} 9\ 9\ 1 \\ 10.00 \\ - 7.35 \\ \hline 2.65 \end{array}$$

"Jesse got \$2.65 back."

### Observations/Documentation