

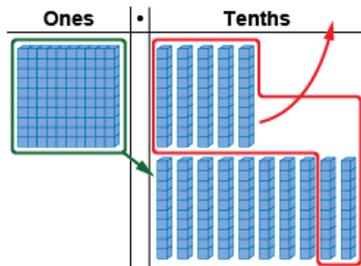
Activity 31 Assessment

Operations with Decimals Consolidation

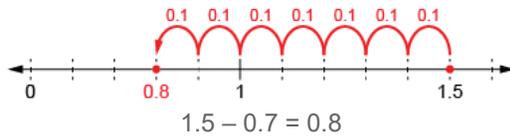
Conceptual Meaning of Addition and Subtraction of Decimals

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)

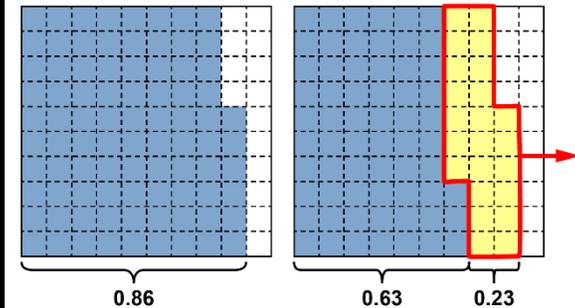
$$14.6 + 27.8 = ?$$

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

"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 31 Assessment

Operations with Decimals Consolidation

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)

$$\begin{array}{r} \overset{1}{2} \overset{1}{5} . 86 \\ - 17.23 \\ \hline 8.63 \end{array}$$

"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?

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

$$\begin{array}{r} \overset{9}{1} \overset{9}{0} \overset{1}{0} \\ - 7.35 \\ \hline 2.65 \end{array}$$

"Jesse got \$2.65 back."

Observations/Documentation