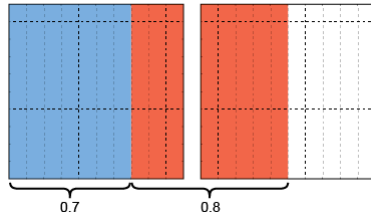# Activity 37 Assessment
Adding and Subtracting Decimals

Conceptual Meaning of Addition and Subtraction of Decimals

Recognizes addition and subtraction situations and models concretely to add or subtract to tenths
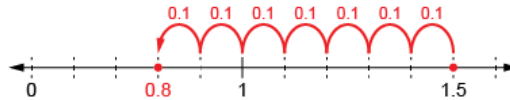
$$0.7 + 0.8 = 1.5$$

0.7   0.8

"7 tenths + 8 more tenths = 1 whole and 5 tenths"

Models and symbolizes ways to solve problems by using a number line

$$1.5 - 0.7 = ?$$

0.1 0.1 0.1 0.1 0.1 0.1 0.1

0   0.8   1   1.5

Uses an understanding of place value to add or subtract decimals with tenths (decomposes both numbers)

$$14.6 + 27.8 = ?$$

14 + 27 = 41 (whole numbers)
0.6 + 0.8 = 1.4 (decimals)
41 + 1.4 = 42.4

"I decomposed both numbers, added the whole numbers, then the tenths."

Observations/Documentation

Activity 37 Assessment
Adding and Subtracting Decimals

Conceptual Meaning of Addition and Subtraction of Decimals (cont'd)		
Uses an understanding of place value to decompose one number	Uses estimation and mental math strategies to check reasonableness of solutions	Solves addition and subtraction problems flexibly, using a variety of strategies

$14.6 + 27.8 = ?$
$27.8 = 27 + 0.8$
$14.6 + 27 = 41.6$
$41.6 + 0.8 = 42.4$

"I used place value to
add on the second number."

$25.86 - 17.23 = 8.63$
$26 - 17 = 9$

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

$25.85 - 17.21 = ?$
$25.85 + 0.15 = 26$
$17.21 + 0.15 = 17.36$
$26 - 17.36 = 8.64$

$$\begin{array}{r} {}^{1\ 1}25.85 \\ -\ 17.21 \\ \hline 8.64 \end{array}$$

Observations/Documentation