

Activity 27 Assessment

Adding with Decimal Numbers

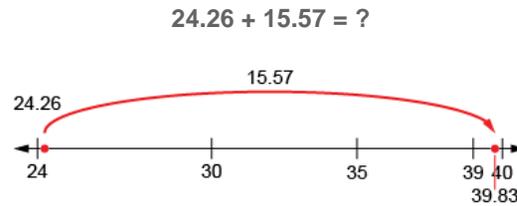
Conceptual Meaning of Addition and Subtraction of Decimals

Recognizes addition and subtraction situations and models concretely to add or subtract to hundredths



$$24.26 + 15.57 = 39.83$$

Models and symbolizes ways to solve problems using an open number line.



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

$$24.26 + 15.57 = ?$$

$$24 + 15 = 39 \text{ (whole numbers)}$$

$$0.26 + 0.57 = 0.83 \text{ (decimals)}$$

$$39 + 0.83 = 39.83$$

“I decomposed both numbers, added the whole numbers, then added the hundredths.”

Observations/Documentation

Activity 27 Assessment

Adding with Decimal Numbers

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

Uses an understanding of place value to decompose one number.

$$24.26 + 15.57 = ?$$

$$15.57 = 15 + 0.57$$

$$24.26 + 15 = 39.26$$

$$39.26 + 0.57 = 39.83$$

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

Uses estimation and mental math strategies to check reasonableness of solutions.

$$4.497 + 7.299 + 3.512 = ?$$

"I used compatible numbers to estimate. 4.497 is close to 5, 7.299 is close to 7, and 3.512 is close to 3; $7 + 3 + 5 = 15$. I calculated 15.308, so my answer is reasonable."

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

$$36.462 - 25.108 = ?$$

$$36.462 - 25 = 11.462$$

$$11.462 - 0.108 = 11.354$$

Tens	Ones	Tenths	Hundredths	Thousandths
3	6	4	5	2
2	5	1	0	8
1	1	3	5	4

Observations/Documentation