

Lesson 2-11 • Group 2

Reinforce Understanding

2.11 Small Group • Group 2

I can add and subtract decimals by lining up the place values and the decimal points, explain why the method works, and use it on a problem I have not seen before.

Worked model

The tank has 128.75 liters. A shuttle adds 46.8 liters. I line up the decimal points and annex a zero: 46.80.

1. I add: $128.75 + 46.80 = 175.55$ liters.
2. Now the thrusters use 19.35 liters, so I subtract: $175.55 - 19.35 = 156.20$.
3. The final fuel level is 156.20 liters. I check with estimation: about $130 + 47 - 19 = 158$, which is close, so my answer is reasonable.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Compute each decimal sum or difference.

Complete the table. Show how you found each value.

Problem	Answer
$5.63 + 2.7$	
$12.4 - 8.56$	
$9.08 + 4.925$	
$25.1 - 13.47$	
$7.006 + 3.94$	

Show your work

2. Estimate each sum or difference by rounding to the nearest whole number, then sort: is the result greater than 10 or less than 10?

Write the name of the correct group on each line.

Groups: Result Greater Than 10 Result Less Than 10

- _____ $7.8 + 3.45$
- _____ $6.25 + 5.9$
- _____ $15.3 - 4.7$
- _____ $8.4 - 2.15$
- _____ $5.6 + 3.82$
- _____ $12.1 - 4.95$