



## Adding and Subtracting Fractions and Decimals

*Elaborate – Answer Key*

**Directions:** Fill in the blank spaces in the chart below. The first problem is complete. Follow the same format for the next four problems.

Problem Situation	Expression	Simpler Expression	Reasonable Solution
Amber is making lemonade for her Yearbook Club meeting. She wants to have $4\frac{7}{10}$ gallons and has already made $3\frac{2}{11}$ gallons. About how much more lemonade does she have to make?	$4\frac{7}{10} - 3\frac{2}{11}$	$5 - 3$	<b>About 2 gallons</b>
Libby ate $1\frac{1}{3}$ of pepperoni pizzas, Scott ate $2\frac{5}{6}$ of pepperoni pizzas, and Molly ate 2.2 pizzas. Approximately how many pizzas were eaten?	$1\frac{1}{3} + 2\frac{5}{6} + 2.2$	$1 + 3 + 2$	<b>About 6 pizzas</b>
Connie has 4.8 sticks of butter. A brownie recipe she is making calls for $1\frac{7}{8}$ sticks of butter and a cake recipe calls for $1\frac{3}{4}$ sticks of butter. About how much butter will she have left?	$4.8 - (1\frac{7}{8} + 1\frac{3}{4})$	$5 - (2 + 2)$	<b>About 1 stick of butter</b>
Camilla went to the store to purchase several items. The prices of the items were \$1.56, \$3.12, \$0.67, and \$10.87. About how much money did Camilla spend at the store?	$1.56 + 3.12 + 0.67 + 10.87$	$2 + 3 + 1 + 11$	<b>About \$17.00</b>
Dana is going on a shopping spree. She has \$75.00 to spend. She wants to buy a shirt for \$28.39, shorts for \$24.64, and a hat for \$8.94. Approximately how much money will she have left?	$75.00 - (28.39 + 24.64 + 8.94)$	$75 - (28 + 25 + 9)$	<b>About \$13.00</b>

### Debriefing Questions

- When estimating with fractions, how can you tell if the fraction is closer to one whole, zero, or one half?  
**Compare the numerator and denominator. If the numerator is half of the denominator, the fraction is close to one half.**

- When estimating with decimals, how can you tell if the number should round up or round down?  
**Use the next smallest place value. If the value of that digit is 5 or more, round up. Otherwise, round down.**

