

Topic B Quiz Prep (Lessons 9 - 13)

Item 1: Add & Subtract Decimals

We learned four different ways to add and subtract decimals (shown to the right). The quickest and easiest way is by using the **Standard Algorithm**. To do so, simply line up the decimal points and be sure to line up each place value digit.

Take from the Next Unit	Relate Addition to Subtraction	Standard Algorithm	Place Value Chart
$9.4 - 3.7 = 6.4 - 0.7 = 5.4 + 0.3 = 5.7$	$12.3 - 4.8$ $4.8 + a = 12.3$ $a + 4.8 = 12.3$	$\begin{array}{r} 9.4 \\ - 3.7 \\ \hline 5.7 \end{array}$	

Practice:

$$8.24 + 5.37$$

$$4.27 - 2.31$$

$$2.1 - 0.63$$

$$5.6 + 0.099$$

$$\begin{array}{r} 5.6 \\ + 0.099 \\ \hline 5.699 \end{array}$$

Item 2: Relate Addition to Subtraction

Practice:

$$\underline{\hspace{2cm}} + 0.85 = 0.93$$

$$5.12 - \underline{\hspace{2cm}} = 2.33$$

$$\underline{\hspace{2cm}} - 1.64 = 3.04$$

Addition and subtraction are inverse operations. That means they are opposite. When we played the Numbers Up! game in Lesson 13, we used inverse operations to solve for your card. Simply look at the equation in the inverse of how it is written.

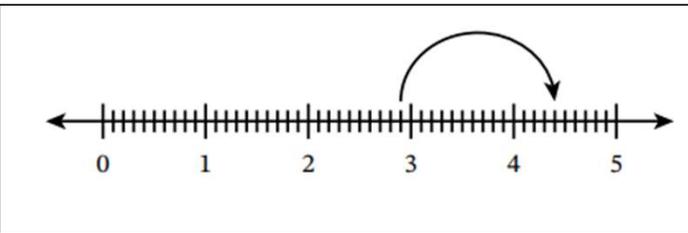
For example, $\underline{\hspace{2cm}} + 0.33 = 1.68$, would mean something plus 0.33 is 1.68; so, the inverse is 1.68 minus 0.33 is the answer. The answer is 1.35.

Another example: $6.75 - \underline{\hspace{2cm}} = 3.45$, would mean 6.75 minus something is 3.45; so, $6.75 - 3.45$ would give us the missing number. $6.75 - 3.45 = 3.30$. Always check your work to be sure.

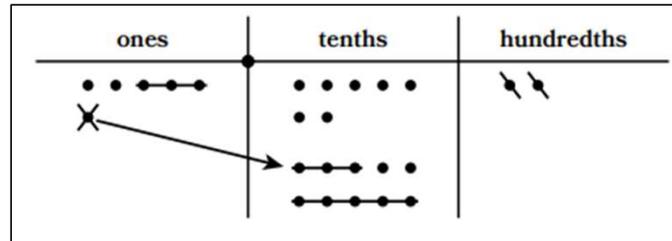
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In Topic B, we used numbers lines and place value charts to show decimal addition and subtraction. In this problem you are asked to match the model with the correct expression. Try it below for practice.

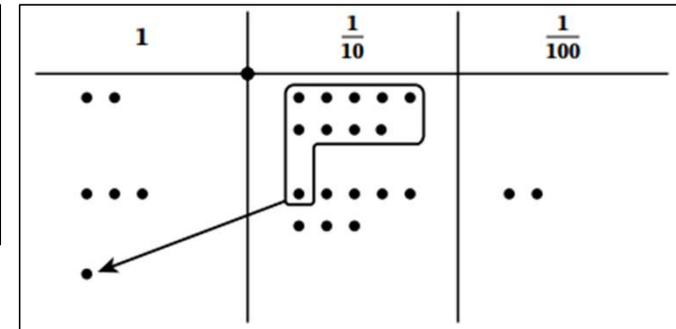
Item 3: Match the model to the expression.



This is a number line showing an **addition** problem.



This is a place value chart renaming units larger to smaller. That is what we do when we **subtract**.



This is a place value chart regrouping units smaller to larger. That is what we do when we **add**.

Answer Choices

$2.9 + 1.5$	$2.9 + 3.82$	$5.41 - 1.5$	$5.41 - 3.91$	$6.72 - 2.9$	$6.72 - 3.82$
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Item 4: Decimal Word Problem

Alexis has \$6.20. She buys a book at the Book Fair for \$3.73. How much does Alexis have left?

Practice:

- A. \$9.93
- B. \$3.53
- C. \$2.53
- D. \$2.47

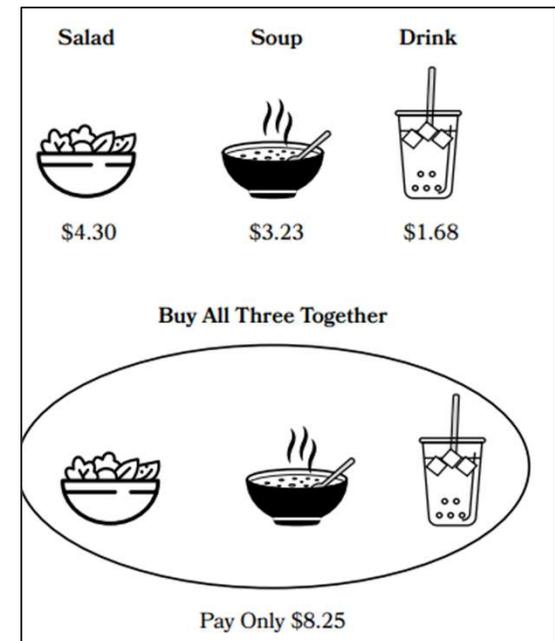
A good strategy that we practiced in this topic was to estimate first by rounding. Alexis has about \$6.00 and the book she buys is about \$4.00. She should have about \$2.00 remaining after buying the book.

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Item 5: Multi-step Decimal Word Problem

A restaurant sells a salad for \$4.30, a cup of soup for \$3.23, and a drink for \$1.68. The restaurant offers a discount for buying all three together. Eddie buys all three and pays \$8.25. How much money does Eddie save?

This is a multi-step word problem. First, add together the regularly priced items (\$4.30 + \$3.23 + \$1.68). Once you have a total, subtract the discounted price which is given to you. Find out how much he saved. Remember, line up the decimal points and place value digits!



Item 6: Estimating to the nearest whole number.

Practice:

$2.35 + 4.52 = \underline{\quad}$

$7.79 + 1.23 = \underline{\quad}$

$4.10 - 1.18 = \underline{\quad}$

We covered rounding decimals in prior lessons. A “whole” number is to the left of the decimal. The ones place is a whole number. Use the same rounding rules that you have learned, for example:

$7.89 - 1.43 = \underline{\quad}$

7.89 would round to a whole # of 8. 1.43 would round to a whole number of 1. So, to estimate it would be $8 - 1 = 7$.

$2.41 + 4.75 = \underline{\quad}$

2.41 would round to a whole number of 2. 4.75 would round to a whole number of 5. So, to estimate it would be $2 + 5 = 7$.