

Adding Decimals



In this tutorial, I'll explore a solution path for adding decimals.

A student is preparing to calculate the sum of the decimal values shown below.

- The student shows the decimals written vertically, but has made an error in rewriting the problem. How would I explain their error?

$$\begin{array}{r} 28.35 \\ + 4.213 \\ \hline \end{array}$$

- How would I explain the reasoning for lining up the decimal points prior to adding the decimal values?
- How would I explain the incorrect addition that would occur in this problem if the decimal points were not lined up?

- Once I have lined up my decimal points, how could I use my knowledge of place value to explain the addition?

$$\begin{array}{r} 28.35 \\ + 4.213 \\ \hline \end{array}$$

- How would I explain why it is sometimes necessary to re-group when adding the digits of numbers?

I'll review by calculating $1.356+0.4+22.8$

How would I explain and demonstrate the steps of my solution?

Adding Decimals - Skills Checklist



- I can explain why I line up the decimal points before adding decimal numbers
- I can identify the place value position of digits in a number
- I can explain when and why it's sometimes necessary to regroup a number when adding
- I can demonstrate how I regroup a number when adding

Adding Decimals - Worksheet



$2ab + 61c$
 $2ab + 61c$

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