

Adding and Subtracting Decimals

Finding Sums and Rounding:

Find: $3.026 + 14.7 + 1.38 =$

Step 1: Estimate _____ + _____ + _____ = _____

Step 2: Line up the decimal points:

$$\begin{array}{r}
 . \\
 . \\
 + \quad . \\
 \hline
 .
 \end{array}$$

Step 3: Fill in zeros as needed, to the ***right*** of the decimal place so that you have the same number of digits on the right.

Step 4: Solve the problem. Don't forget the decimal in your answer!

Step 5: Check your answer with your estimate. Does it make sense?

Front End Estimation:

Step 1: Estimate the sum of the digits in front of the decimal place.

Step 2: Estimate the sum of the digits behind the decimal place and add to estimate.

$$\begin{array}{r}
 \$3.98 \\
 \$6.49 \\
 \$9.08 \\
 + \quad \$3.47 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
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 \$6.49 \\
 \$9.08 \\
 + \quad \$3.47 \\
 \hline
 \end{array}$$

Step 4: Check answer with estimate.

Subtracting Decimals:

$$46 - 24.28$$

Step 1: Estimate:

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

Step 2: Add a decimal and zeros to 46. How many zeros do you need?

Step 3: Line up decimals and solve, borrow if needed

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