

Estimate the difference

$$12.12 - 8.56$$

**Front end** (Just cut off the decimal part)

$$\begin{array}{r} 12 \\ - 8 \\ \hline 4 \end{array}$$

Actual

$$12.12 - 8.56$$

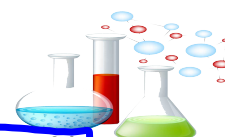
$$\begin{array}{r} 12.12 \\ - 8.56 \\ \hline 3.56 \end{array}$$

Find the actual

$$\begin{array}{r} \overset{4}{\cancel{5}}.\overset{9}{\cancel{0}}7 \\ - 4.39 \\ \hline 0.68 \end{array}$$

$$\begin{array}{r} \overset{4}{\cancel{5}}.\overset{9}{\cancel{0}}7 \\ - 4.39 \\ \hline \end{array}$$

## Add to notes



In Chemistry 122 the average for the class is 97.36 % The average for Chemistry 121 is 93.48 % What is the difference in the percentages between the 2 classes?

% means percent

$$\begin{array}{r} 97.36 \\ - 93.48 \\ \hline 3.88 \end{array}$$

The difference  
in % is  
3.88 %.

Homework  
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Only estimate when asked to estimate. (If not then just add or subtract normally showing work)