



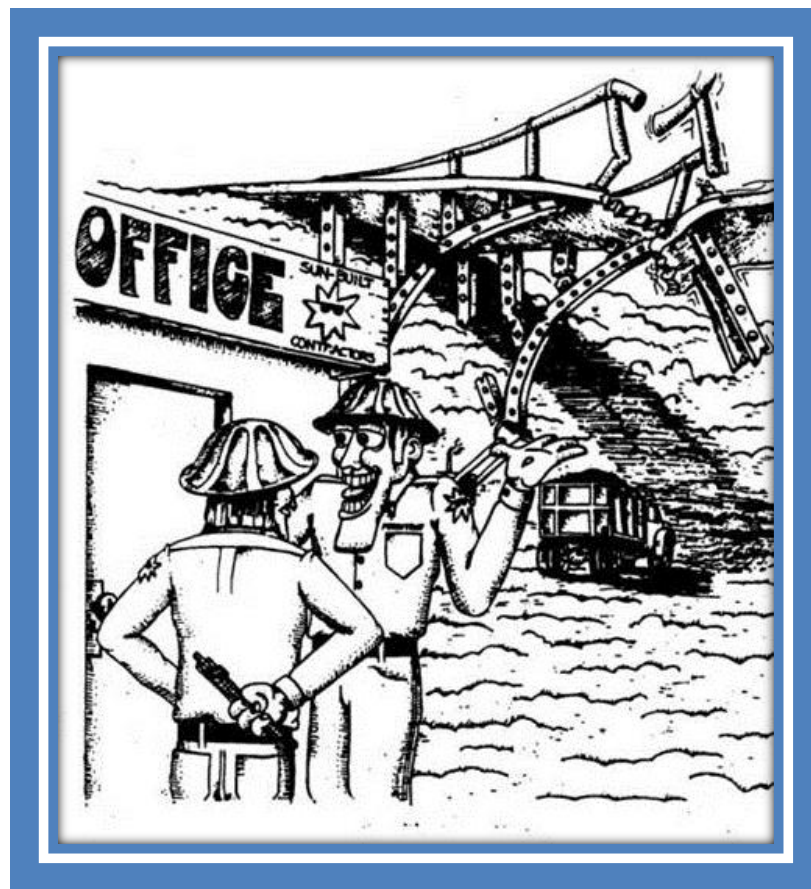
Personal Finance: Adding and Subtracting with Decimals

\$1000.00 or \$1.00000
Umh...Let me think.



The Decimal

The **decimal** is such a small thing, easy to miss. But imagine a world without it.



“But boss...I just left out a decimal.”



Adding Decimals

$$0.9 + 2.5 + 63.17$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

$$\begin{array}{r} 0.90 \\ 2.50 \\ + 63.17 \\ \hline \end{array}$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Add: Right to Left

$$\begin{array}{r} 0.90 \\ 2.50 \\ + 63.17 \\ \hline 7 \end{array}$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Add: Right to Left

$$\begin{array}{r} 1 \\ 0.90 \\ 2.50 \\ + 63.17 \\ \hline 57 \end{array}$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Add: Right to Left

$$\begin{array}{r} 1 \\ 0.90 \\ 2.50 \\ + 63.17 \\ \hline 65.57 \end{array}$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point

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$$\begin{array}{r} 1 \\ 0.90 \\ 2.50 \\ + 63.17 \\ \hline 66.57 \end{array}$$



Adding Decimals

$$0.9 + 2.5 + 63.17$$

Steps:

1. Line up the decimal point
 - Put a “0” at the end of the decimal as a placeholder.
2. Add: Right to Left
3. Bring the Decimal

$$\begin{array}{r} 1 \\ 0.90 \\ + 2.50 \\ + 63.17 \\ \hline 66.57 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

$$\begin{array}{r} 14.900 \\ - 0.007 \\ \hline \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

$$\begin{array}{r} \overset{8}{9} \overset{10}{0} \\ 14.\cancel{9}\cancel{0}\cancel{0} \\ - 0.007 \\ \hline 3 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

$$\begin{array}{r} ^8 ^9 ^{10} \\ 14.\cancel{9}\cancel{0}\cancel{0} \\ - 0.007 \\ \hline 93 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

$$\begin{array}{r} ^8 ^9 ^{10} \\ 14.\cancel{9}\cancel{0}\cancel{0} \\ - 0.007 \\ \hline 893 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

$$\begin{array}{r} \\ \\ \\ 14.\cancel{9}\cancel{0}\cancel{0} \\ - 0.007 \\ \hline 4\ 893 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

$$\begin{array}{r}
 4.\overset{8}{9}\overset{10}{00} \\
 - 0.007 \\
 \hline
 4.893
 \end{array}$$



Subtracting Decimals

$$14.9 - 0.007$$

Steps:

1. Line up the decimal point

- Put a “0” at the end of the decimal as a placeholder.

2. Subtract: Right to Left

3. Bring the Decimal

$$\begin{array}{r} \overset{8}{9} \overset{10}{00} \\ 14.\cancel{9}\cancel{0}\cancel{0} \\ - 0.007 \\ \hline 14.893 \end{array}$$



Review:

1. What could happen if your boss put the decimal in the wrong place on your paycheck?

2. How do you line up decimals in numbers with fewer places?



Review:

1. What could happen if your boss put the decimal in the wrong place on your paycheck?

You could get paid too little or too much.

2. How do you line up decimals in numbers with fewer places?

Put “0” at the end of the decimal as a place holder.