# Topic 4: Addition and Subtraction of Decimal Numbers

## Class Notes

**Rules for Adding and Subtracting Decimals:**

1. **Align the decimal points** vertically
2. **Add zeros** if needed to make the numbers have the same number of decimal places
3. **Add or subtract** as you would with whole numbers
4. **Place the decimal point** in the answer directly below the decimal points in the problem

**Examples:**

**Addition Example:** $25.47 + 8.9 + 0.635$

$$
\begin{array}{r}
25.470 \\
8.900 \\
+0.635 \\
\hline
35.005
\end{array}
$$

**Subtraction Example:** $42.6 - 18.73$

$$
\begin{array}{r}
42.60 \\
-\ \ 18.73 \\
\hline
23.87
\end{array}
$$

In-Class Exercise 4

**Part A:** Calculate:

1. $15.6 + 9.24 \rightarrow$

2. $32.45 - 18.7 \rightarrow$

3. $7.8 + 12.35 + 4.067 \rightarrow$

**Part B:** Word Problems

1. Sarah bought items costing $12.45, $8.75, and $15.30. How much did she spend in total?

2. A rope was 25.6 meters long. If 8.75 meters were cut off, how much rope remained?