

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?