

SOL Standard 6.7: The student will **use estimation strategies** to solve multi-step practical problems involving whole numbers, decimals, and fractions (rational numbers).

Rounding Whole Numbers and Decimals

Find your number
Look next door

5 or more
Add one more

4 or less
Just ignore

Examples:

$$\begin{array}{r}
 \overline{1,237} \quad \text{--- } 1,000 \\
 + \overline{5,532} \quad \text{--- } \underline{6,000} \\
 \hline
 7,000
 \end{array}$$

Front-end Estimation:

Step 1: Add the front digits that have
Same place value together

$$\begin{array}{r}
 3,146 \\
 2,902 \\
 510 \\
 + 2,495 \\
 \hline
 7,000 \text{ Rough estimate}
 \end{array}$$

Step 2: For greater precision, adjust by estimating
the digits to the right of the front digits.

$$\begin{array}{r}
 3,146 \quad \text{about} \\
 2,902 \quad \text{-- } 1,000 \\
 510 \quad \text{about} \\
 + 2,295 \quad \text{-- } \underline{1,000} \\
 \hline
 7,000 + 2,000 = \mathbf{9,000} \text{ adjusted} \\
 \text{estimate}
 \end{array}$$