FQR 470: Problem 1.26 (textbook) 

Conceptual solution 

[Stabs] 

[developing a template] 

\[
\frac{12 + c}{14 + c} \quad \frac{1 \text{ lb fuel}}{2000 \text{ lb fuel}} \quad \frac{1 \text{ lb fuel}}{15000 \text{ BrU}} \quad \frac{10^7 \text{ BrU} \times 0.85}{\text{ yr}} \\
\overbrace{\text{OK?}} \quad \overbrace{\text{OK?}} \quad \overbrace{\text{OK?}} \\
\text{Coal:} \quad \text{oil:} \quad \frac{\text{BrU}}{\text{gal}} \quad \frac{\text{BrU}}{\text{lb}} \\
\text{NG:} \quad \frac{12 + c}{16 \text{C}_4} = \cdots \quad \text{NG:} \quad 1000 \frac{\text{BrU}}{\text{ft}^3} = \cdots \quad \frac{\text{BrU}}{\text{lb}} \\
\Rightarrow \text{Contributions of coal, oil, NG to energy consumption? etc.}