Name: ________________________________

Practice with Multi-Step Word Problems

**SNAPPY RENTAL CAR**

Snappy Rental Car charges $108.25 to rent a car and $0.35 for every mile driven.

A.) How much would it cost to rent a car and drive it for a total of 17 miles?

B.) Write an equation that could be used to calculate the cost, C, of a rental as a function of total miles, m, driven in addition to the initial charge.

C.) If Jordi has a budget of $150, what is the maximum number of miles he can drive a rental car without going over?
**ANSWER KEY**

$108.25 \text{ cost to rent}
$0.35 \times 17 \text{ miles} = $5.95

\[
\begin{array}{c}
108.25 \\
- 5.95 \\
114.20
\end{array}
\]

\[C = 108.25 + 0.35m\]

\[
\begin{array}{c}
150 > 108.25 + 0.35m \\
150 - 108.25 > 108.25 - 108.25 + 0.35m \\
41.75 > 0.35m \\
41.75 \div 0.35 > 0.35m \div 0.35 \\
119.29 > m \\
m < 119.29
\end{array}
\]

\[119 \text{ miles:} \]
\[C = 108.25 + 0.35m \]
\[C = 108.25 + 0.35(119) = $149.90 \]
UNDER!

\[120 \text{ miles:} \]
\[C = 108.25 + 0.35m \]
\[C = 108.25 + 0.35(120) = $150.25 \]
OVER!

A) The total cost to rent a car and drive 17 miles would be $114.20.

B) \( C = 108.25 + 0.35m \)

C) Jordan could drive a maximum of 119 miles without going over his $150 budget.