

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 cost to rent
\$0.35 x 17 miles = \$5.95

$$\begin{array}{r} 108.25 \\ - 5.95 \\ \hline 114.20 \end{array}$$

$$C = 108.25 + 0.35m$$

$$150 > 108.25 + 0.35m$$

$$150 - 108.25 > 108.25 - 108.25 + 0.35m$$

$$41.75 > 0.35m$$

$$41.75 \div 0.35 > 0.35m \div 0.35$$

$$119.29 > m$$

$$m < 119.29$$

119 miles:

$$C = 108.25 + 0.35m$$

$$C = 108.25 + 0.35(119) = \$149.90$$

UNDER!

120 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.