

## Question:

Sophia is thinking of taking a road trip in her car and would like to know how far she can drive on a single tank of gas. She has traveled 100 miles since last filling her tank and she needed to put in 4 gallons of gas to fill it up again. The owner's manual for her car says that her tank holds 12 gallons of gas. How many miles can Sophia drive on a single tank of gas?

## Reasoning + Answer:

<think> Sophia has traveled 100 miles since she last filled her tank, and she put in 4 gallons of gas, so she can drive  $100 \text{ miles} / 4 \text{ gallons} = 25 \text{ miles per gallon}$ . Her tank can hold 12 gallons of gas, so she can drive  $12 \text{ gallons} \times 25 \text{ miles per gallon} = 300 \text{ miles on a full tank}$ . </think> <answer>300</answer>