

Test 8—Question 4: Problem Solving

- 4** John's family will stop at a gas station, a grocery store, and a flower shop on the way to his grandparents' house. The table below shows the distance the family will travel between each of the stops.

Portions of Family Trip

Start	End	Distance (in miles)
Gas station	Grocery store	20.0
Grocery store	Flower shop	17.5
Flower shop	Grandparents' house	124.0

How many miles will the family travel from the gas station to his grandparents' house?

Answer _____ miles

The rate at which the family car uses gasoline is 19 miles per gallon. The car will have 9 gallons of gasoline at the beginning of the trip.

Will John's family be able to drive to his grandparents' house without stopping for gasoline again? On the lines below, explain why or why not. Be sure to use values to justify your answer.

$$\text{distance} = \text{rate} \times \text{gallons}$$
