

Study Link

7-9

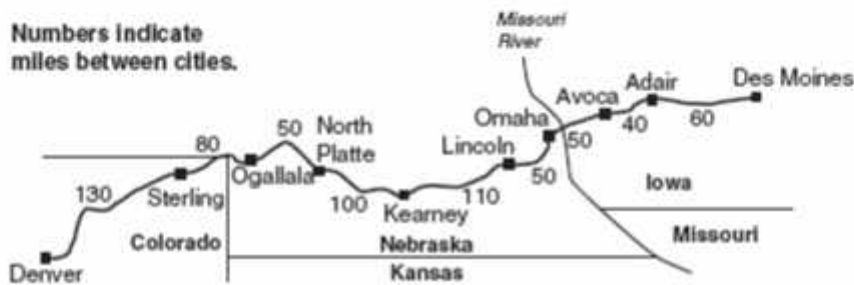
Will I Run Out of Gas?

You are driving with your family from Denver, Colorado, to Des Moines, Iowa.
You know the following:



- ◆ Your car's gasoline tank holds about 12.1 gallons.
- ◆ Your car uses about 1 gallon of gasoline for every 30 miles on the highway.
- ◆ You start your trip with a full tank.

Here is a map of the route you follow.



1. About how many gallons of gasoline would your car use traveling from Denver to Sterling? About _____ gallons
2. When you get to Ogallala, you would expect your gas tank to be
 - a. almost empty.
 - b. about $\frac{1}{4}$ full.
 - c. about $\frac{1}{2}$ full.
 - d. about $\frac{3}{4}$ full.
3. Is it OK to wait until you get to Kearney to buy more gas? Explain.

4. You stop at North Platte to buy more gasoline. If you buy 7.6 gallons, about how many gallons are there in your tank now? About _____ gallons
5. Could you get to Des Moines from North Platte without running out of gas if you filled your gasoline tank just one more time? _____

If so, where would you stop? _____