**SECTION 9-7 Renting a Vehicle**

When you rent a vehicle, the total cost may include a daily rate, a rate per mile, gasoline charged to you, and insurance.

\[
\text{Cost per Mile} = \frac{\text{Total Cost}}{\text{Number of Miles Driven}}
\]

1. Alicia Whitman rented a station wagon for her vacation. The wagon rented for $35.40 per day plus 21¢ per mile. She used the wagon for 7 days. She paid $54.20 for gasoline during her 620-mile drive. What is her cost per mile to the nearest cent?

2. The Browns plan to fly to their vacation spot and then drive through the mountains. They arranged to rent a sedan for $37.45 per day with no charge for mileage.
   a. What will it cost the Browns to rent the car for 10 days if they spend $78 for gasoline and $16.75 for miscellaneous items?
   b. What will it cost per mile if they drive 590 miles?

3. The Stocktons are moving into a new house this weekend. To transport all their household belongings, they will need to rent a truck for 1 day. The rental cost will be $45 per day plus 29¢ per mile. The collision waiver will cost $25.
   a. What will be their total cost if they pay $15.50 for diesel fuel and drive 68 miles?
   b. What will be their cost per mile?

4. Rui Cortez rented a 14-foot truck to move into his new apartment. He rented the truck for 1 day at a cost of $37.50 per day plus 21¢ per mile. The collision waiver cost $10.00. Gasoline cost $44.60. Cortez drove 220 miles. What was his cost per mile?

5. Esther Zeeva flew to her vacation condominium and rented a convertible for 7 days. The car rents for $229 per week with no charge for mileage. Find her cost per mile if gasoline cost $31.64 and she drove 485 miles.

6. You fly to a weekend business conference and rent a vehicle for Friday, Saturday, and Sunday. You drive 115 miles and gasoline costs you $7.50. The weekend rental rate on the vehicle is $49.50 plus 25¢ per mile. What is the cost per mile?

7. You and 3 friends rent a limousine for the prom. The cost is $79.95 per day plus $0.38 per mile. Insurance costs $75. You rent the limo for 2 days and drive 48 miles. The limo gets 8 miles per gallon. Gas costs $1.23 per gallon.
   a. What is the total cost of renting the limo?
   b. What is the cost per mile?
   c. What is the cost per person?