PRACTICE • Renting a Car

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Use the rate table at the right. Find the rental cost. Remember to estimate whenever you use your calculator.

- 1. Car: Luxury Days: 3 Mileage: 565
- 2. Car: Compact Days: 2 Mileage: 278
- 3. Car: Van Days: 5 Mileage: 846
- 4. Car: Midsize Days: 4 Mileage: 682

A-1	-1 RENT-A-CAR				
Car	Daily rate	Cost per mile			
Compact	\$28	\$0.28			
Midsize	\$35	\$0.32			
Luxury	\$40	\$0.36			
Van	\$49	\$0.42			
100 FREE	MILES E	ACH DAY			

5. Car: Compact Days: 6

Mileage: 1,015

6. Car: Luxury Days: 1 Mileage: 113

7. Car: Midsize Days: 5 Mileage: 908 8. Car: Van Days: 7

Mileage: 2,500

Complete the table.

Car	Luxury	Midsize	Compact	Van	Luxury
Odometer begin	5,684	10,329	18,947	21,864	25,600
Odometer end	6,019	10,925	19,845	22,002	26,200
Days	2	5	4	1	1
Daily cost	9.	13.	17.	21.	25.
Chargeable mileage	10.	14.	18.	22.	26.
Mileage charge	11.	15.	19.	23.	27.
Total cost	12.	16.	20.	24.	28.

Use the rate table above. Approximate the rental cost.

- 29. Mark is going to rent a compact car to travel from Philadelphia to Boston and back. The 1-way mileage is about 300 mi. The trip will take 2 d.
- 31. Joanne is going to rent a midsize car to drive from Chicago to New York and back. The estimated 1-way mileage is 675 mi. The trip will take 2 d.
- 30. Vera plans to rent a midsize car to drive from New York to Cleveland and back. The estimated 1-way mileage is 500 mi. The trip will take 3 d.
- **32.** The Rosners plan to rent a luxury car to drive from New York to Orlando. The estimated mileage is 1,340 mi. The trip will take 3 d.

Victor listed the features of 3 cars he would consider buying to help him choose one.

Car X Price: \$13,708.65 Mpg: 20 Regular unleaded @ \$1.026 per gal Insurance: \$1,548 per y Estimated maintenance and repair for 3 y: \$1,950 Moderate passenger protection Safety: Good driver protection

Economy unleaded @ \$1.016 per gal Price: \$14,352.20 Mpg: 23 Estimated maintenance and repair for 3 y: \$2,068 Insurance: \$1,425 per y Good passenger protection Safety: Good driver protection

Super unleaded @ \$1.132 per gal **Car Z** Price: \$12,686.00 Mpg: 19 Insurance: \$1,346 per y Estimated maintenance and repair for 3 y: \$2,185 Moderate passenger protection Safety: Moderate driver protection

Compare the 3 cars by completing the table.

- Assume that Victor will drive 20,000 mi per y.
- Victor will put \$3,000 down and finance the rest with a 3-y loan at 7.9%. Use the monthly payment table on page 171 of your textbook.
- To find the total annual car expenses: Add one year's car payments, the cost of gasoline for a year, the cost of insurance for a year, and $\frac{1}{3}$ of the maintenance and repair costs.
- To find the cost per mile, divide the annual expenses by 20,000.

Factors	Car X	Car Y	Car Z
Price	1.	2.	\$12,686.00
Monthly loan payment	3.	\$355.32	4.
Gas costs for 1 y	\$1,026.00	5.	6.
Maint./repair costs for 1 y	7.	\$689.33	8.
Total annual expenses	9.	10.	\$5,557.95
Cost per mile	\$0.28	11.	12.
Safety	13.	Good	14.

Which car should Victor buy if the only factor were:

- 16. Monthly loan payment? _____ 17. Safety? **15.** Price? _____
- 18. How much would Victor save each year on the car with the lowest annual expense over the car with the highest annual expense?
- 19. How much lower would his monthly payments be if he bought Car Z instead of Car X?
- 20. How much would he save on gasoline each year if he bought Car X instead of Car Z?