PRACTICE • Automobile Operating Expenses

Find the mileage. Estimate the mpg.

Remember to estimate whenever you use your calculator.

	Car A	Car B	Car C	Car D	Car E	Car F
1st odometer reading	854	12,533	16,729	23,681	964	57,300
2nd odometer reading	1,076	18,705	21,595	26,571	1,039	63,500
Miles driven	1.	3.	5.	7.	9.	11.
Gallons of gasoline used	12	280	191	208	5	310
Мрд	2.	4.	6.	8.	10.	12.

Find the approximate cost of gasoline for a 600-mi trip. Round up to the nearest ten dollars. Use the estimated mpg from the table above.

	Car A	Car B	Car C	Car D	Car E	Car F
Brand Y \$0.928/gal	13.	15.	17.	19.	21.	23.
Brand Z \$1.179/gal	14.	16.	18.	20.	22.	24.

Solve.

- 25. Rudy's car needs repairs on the alternator at a cost of \$268 and the starter at a cost of \$246. There is an 8% sales tax on the cost of repairs. What is the total cost?
- 26. Carol takes her car in to have the water pump fixed for \$185 and the brake pads repaired for \$128. There is an 8.5% sales tax on the cost of repairs. What is the total cost?
- 27. Alex's pick-up truck needs a new water pump that costs \$315 and a new starter that costs \$235. There is a 6.75% sales tax on the cost of the repairs. What is the total cost?
- 28. Sharon took her car in to have the alternator fixed for \$120 and the brake pads replaced for \$96. There is a 7.5% sales tax on the cost of the repairs. What is the total cost?

The average car depreciates about 38% after 3 y. Find the estimated amount of depreciation and the depreciated value in 3 y.

29. Original cost: \$16,500

30. Original cost: \$11,990

31. Original cost: \$34,500

32. Original cost: \$26,750

LIABILITY I	Yearly base		
Туре	Amount	premium	
	25/50	\$146.50	
Bodily injury	50/100	\$168.25	
, ,	100/300	\$178.40	
	25	\$80.40	
Property damage	50	\$90.20	
aamago	100	\$105.60	

COLLISION/COMPREHENSIVE YEARLY BASE PREMIUMS			
Deduc. Collision Compreh		Comprehensive	
\$50	\$198.45	\$74.60	
\$100	\$186.34	\$58.20	
\$200	\$142.68	Not available	

Use the rate tables above. Find the total yearly base premium. Remember to estimate whenever you use your calculator.

1. Liability:

25/50/50

Collision:

\$50 deductible

Comprehensive: \$50 deductible

2. Liability:

50/100/100

Collision:

\$200 deductible Comprehensive: \$50 deductible

3. Liability:

100/300/100

Collision:

\$100 deductible Comprehensive: \$100 deductible 4. Liability:

50/100/50

Collision:

\$50 deductible Comprehensive: \$100 deductible

Use the rating factors graph on page 176 of your textbook. Find the rating factor.

5. Unmarried female, 24 Drives parents' car

6. Unmarried male, 28 Drives own car

7. Unmarried male, 20 Drives own car

Complete the table. Assume a \$100 Comprehensive deductible for each driver.

Driver	Male, 17, owns car	Female, 17	Male, 18, not owner	Male, 19, owns car	Female, 24, owns car
Liability	25/50/25	50/100/50	100/300/100	50/100/100	50/100/50
Yearly base premium	8.	14.	20.	26.	32.
Collision deductible	\$50	\$100	\$100	\$200	\$50
Yearly base premium	9.	15.	21.	27.	33.
Comprehensive deductible	10.	16.	22.	28.	34.
Total base premium	11.	17.	23.	29.	35.
Rating factor	12.	18.	24.	30.	36.
Total premium	13.	19.	25.	31.	37.