

## MIXED REVIEW

Your credit card carries a monthly finance charge of 1.25%. You pay 10% of the amount owed to the nearest dollar each month. Your beginning balance is \$1676. Complete the following table for 3 months. Assume that you make no further purchases during that time.

	Month	Balance	Interest	Amount Owed	Payment
1.	1	\$1676			
2.	2				
3.	3				

Use the Tax Table in the Reference Section to determine the tax owed by each of the following taxpayers.

- A married person, filing separately, with \$45,750 in taxable income
- A head of household with \$72,000 in taxable income

Use the information in the table below to find the distance traveled, the miles per gallon, and the cost per mile of the trip.

	Odometer		Gallons of Gas	Cost of Gas	Distance (miles)	Miles per Gallon	Cost per Mile
	First	Last					
6.	26,580	27,000	21	\$24.50			
7.	250	866	19.5	27.56			
8.	86,290	87,326	51.6	49.75			

- Cheryl prepares flower arrangements for Niven's Flower Store. She receives \$7.50 for each budget arrangement, \$12.25 for each regular arrangement, and \$18.50 for each deluxe arrangement. How much did she earn in a week in which she assembled 30 budget arrangements, 15 regular arrangements, and 12 deluxe arrangements?
- Myrna sells annual memberships in an exercise club. Her boss has offered her a choice between Plan 1, no salary but a straight \$40 for each membership sold, and Plan 2, a weekly base salary of \$200 plus \$30 for each membership sold. How many memberships would Myrna have to sell to make the same amount of money under either plan?
- Joseph's annual salary is \$68,250. How much does Joseph pay for FICA taxes each year?
- Heidi's annual salary is \$137,500. How much does Heidi pay for FICA taxes each year?
- Oshi's annual salary is \$52,500. How much does Oshi pay for FICA taxes each year?



## CHAPTER 11 REVIEW

1. What is an advantage in traveling by interstate highways?
2. What is an advantage in traveling by secondary roads?
3. Why should plans for travel by car be somewhat flexible?
4. What is an advantage of air travel over travel by car?
5. What is an advantage in traveling by car?
6. In addition to times of departure and arrival, what must you check when calculating the length of time for a flight?

Use the U.S. interstate map to identify that routes you would take to travel from Dallas, Texas, to the following cities.

7. New Orleans, Louisiana
8. Richmond, Virginia
9. Boston, Massachusetts
10. Little Rock, Arkansas
11. Chicago, Illinois
12. Kansas City, Kansas

Use the mileage chart to find the distances by road between the following.

13. Austin, Texas, and Detroit, Michigan
14. Cincinnati, Ohio, and Flagstaff, Arizona
15. Kansas City, Missouri, and Miami, Florida
16. Louisville, Kentucky, and Philadelphia, Pennsylvania
17. Find the cost of traveling the distances for Exercises 13–16 if you get 23.5 miles per gallon and gas costs an average of \$1.45 per gallon.
18. A family of five wants to share a room at the Honolulu Royale. The rates are \$86.00 for two people, \$10 for each additional person, and \$4.00 for a rollaway bed; the tax is 9.6%. Assuming that they need one rollaway bed, how much will it cost the family to stay for 5 nights?

Use the following for Exercises 19–21.

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**ATLANTA PLAZA** Rates: 1 pers, \$65–83; 2 people, dbl, \$73–91  
Tax 8%, Addit. Pers \$8. Children free. Rollaway \$6

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19. What is the least that it would cost two adults and one child to stay for 4 nights, assuming that each has his or her own bed?
20. What is the least that it would cost one person to stay for 2 nights?
21. What is the most that it would cost two people to stay 2 nights?



Find the total amount spent each day, the total for each meal, and the average cost of a meal.

		Monday	Tuesday	Wednesday	Thursday	Total	Average
22.	Breakfast	\$15.20	\$22.75	\$12.28	\$23.78		
23.	Lunch	25.47	30.80	11.45	17.56		
24.	Dinner	89.63	71.29	67.40	38.59		
25.	Total						

Harvey's Tours arranges guided tours to different parts of the country. The 4-day bus tour of New England has a fixed cost of \$4200 and a per person cost of \$160. The charge for the tour is \$450 per person.

26. Write an equation for the expenses of the tour.
27. Write an equation for the revenue received by Harvey's Tours.
28. Graph the equations.
29. Find the approximate break-even point.
30. Find the break-even point algebraically.
31. How much profit will Harvey's make if 20 people go on the tour?

Find the time zone for each city.

32. Washington, D.C.
33. Eugene, Oregon
34. Butte, Montana
35. Tulsa, Oklahoma

Use the Windward Airlines Schedule in the Reference Section to do the following.

36. Estimate the average length of a trip from Chicago to San Antonio.
37. Find the departure time of the earliest flight from Chicago to Oklahoma City, Oklahoma.
38. Find the arrival time of the latest flight from Chicago to Roanoke, Virginia.
39. Find the length of the first flight from Chicago to Raleigh/Durham, North Carolina.

Consuela is planning a trip from Chicago to San Antonio, Texas. Use the information in the Reference Section as needed. If she drives, she expects that it will take 3 days. She will have to spend \$80 a day for meals and hotels. Her car gets 22 miles to the gallon of gas, and she expects to pay an average of \$1.35 per gallon. She can get an airline ticket for \$660.

40. What is the air mileage for the trip?
41. What is the driving mileage for the trip?
42. What will be the approximate cost of the trip by car?
43. About how much money does she save traveling by car?

## CHAPTER 11 TEST

1. What are two possible causes of delays in traveling by car?
2. Why should travelers estimate costs before starting on a car trip?
3. Use the interstate map to plan the most direct route from Indianapolis, Indiana, to Yellowstone National Park in Wyoming.

Complete the table to find the number of gallons and total cost.

	Miles	Miles per Gallon	Number of Gallons	Cost per Gallon	Total Cost
4.	1768	22.6		\$1.47	
5.	2591	25.6		1.29	

Use the following descriptions to answer Exercises 6 and 7.

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**HUMPHREY LODGE**

Rates: Double \$56

Addit. Pers: \$8

Tax: 9%

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**McCARTHY INN**

Rates: Double \$86

Children free

Tax: 8%

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6. Find the cost of three adults sharing a room at the Humphrey Lodge for 2 nights.
7. Find the cost of two adults and two children for 3 nights at the McCarthy Inn.

Alex and Alicia run nature tours to different parts of the country. Three days in the Everglades, leaving from Miami, cost them a flat rate of \$1500 and \$125 per person. The charge per person is \$225.

8. Write an equation for the cost of the tour to Alex and Alicia.
9. Write an equation for the income for the tour.
10. Graph the equations.
11. Use the graph to find the break-even point for the tour.
12. Find the break-even point algebraically.
13. What is the amount of profit or loss if ten people go on the tour?

Use the Windward Airlines schedule in the Reference Section to do the following.

14. Find the length of time of the first flight from Chicago to Myrtle Beach.
15. Find the length of time of the last flight from Chicago to Norfolk, Virginia.



## CUMULATIVE REVIEW

Assume that 40 hours = 1 workweek, 52 weeks = 1 year, and 12 months = 1 year. Find the hourly, weekly, monthly, and yearly salaries for the following pay rates.

- \$17,680 per year
- \$2000 per month
- \$5.50 an hour
- Your checkbook shows a balance of \$178.64. You have outstanding checks that total \$53.21. The bank statement shows a balance of \$229.85. Find the amount of a bank fee that has not yet been recorded in your checkbook.

You have a savings account that contains \$6000. Your bank pays interest at an annual rate of 5.5% compounded as given. Find the value of the account at the end of 3 years.

- annually
- quarterly

Jackie and Joshua have gone into business selling doughnuts. They charge 75¢ for each doughnut. Their fixed costs are \$400. Each doughnut costs \$0.36.

- How many doughnuts must they sell before they begin to make a profit?
- How much profit will they have after selling 1500 doughnuts?
- The previous balance of a credit card statement is \$930. The monthly interest rate is 1.5% and you pay \$125 plus all of the interest that has accumulated for that month. What is the new balance?
- Use the Credit Scoring Table on page 293 of Lesson 6-6 to find the probability that a person with a score of 115 will repay a loan.

An insurance company expects 99.804% of all 36-year-old people to live at least one more year. The direct and indirect expenses for issuing one policy are \$25.

- Find the break-even premium for a 1-year \$150,000 term insurance policy on a 36-year-old person.
- What profit does the company expect to make on a \$200,000 1-year term policy for a 36-year-old person who is charged with a premium of \$550?
- How many bonds can you buy with \$20,000 given that the price of the bond is quoted at  $101\frac{3}{4}$ , that is, at \$1017.50 for each bond? Ignore the effect of commissions.
- Find the loss incurred in buying 100 shares of stock at  $63\frac{3}{8}$  and then selling them 1 year later at  $57\frac{5}{8}$ . The commission rate on each transaction is 2%.
- Use the Tax Tables in the Reference Section to find the tax to be paid by a single person who has \$29,760 of taxable income.

A car is purchased by a dealer for \$12,600 and sold for \$16,000.

- Find the markup.
- Find the percent of markup.
- If a used car is purchased for \$8000 and depreciates in a straight line for 8 years, what is its value after 3 years?

## PROJECT 11-1: Planning a Camping Trip

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Work with a group of classmates to plan a 2-week camping trip for a family of four.

1. Decide where you want to go and what sights you want to see.
2. Plan a driving route to include campsites along the way.
3. Estimate the cost of gasoline, lodging, and food for the trip, including the cost of camping at the sites you choose.
4. Find the approximate cost of renting a bus with a driver for a camping trip similar to the one you planned above.
5. Estimate the fixed and variable costs.
6. Set a fair per-person price for the trip.
7. Write cost and revenue equations.
8. Graph the cost and revenue equations.
9. Find the break-even point for the trip.

## PROJECT 11-2: Planning an Airline Trip

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Work with a group of classmates to find bargain air fares.

1. Have each person choose five cities to visit.
2. Get prices from various airlines and travel agents.
3. Find the savings achieved by purchasing in advance and by staying particular lengths of time.
4. Have individuals present their findings and discuss different arrangements with the group.
5. Prepare a list of tips to travelers about how to save money on air fare.