

Consumer Math Final Review

- 1.2 1. Carleen Bailey works at CD Warehouse eight hours a day, earning \$10.48 an hour. She is asked to work two additional hours at time and a half to help prepare for an incoming shipment. How much will she earn for these two hours of overtime?
- 1.3 2. Calista Fleck's time card for one week is shown below. What are her total hours for the week?

EMPLOYEE TIME CARD	DATE	IN	OUT	IN	OUT	HOURS
NAME: CALISTA FLECK	9/06	6:15	11:15	1:00	5:00	
DEPT.: CREDIT	9/07	8:30	12:00	12:30	5:30	
Calista Fleck	9/08	8:00	12:00	12:30	4:30	
	9/09	7:15	11:15	2:30	4:30	
	9/10	8:30	12:30	2:30	4:00	
EMPLOYEE SIGNATURE	TOTAL HOURS					

- 1.7 3. Jeannie McGraw sells replacement windows. She earns 5 percent commission on the first \$8,000 and 10 percent commission on all sales over \$8,000. How much will she earn on \$34,000 in sales?

Figure 2.1. Use this table with the question(s) below, as needed.

PERSONAL EXEMPTIONS
Single - \$2,000
Married - \$4,000
Each Dependent - \$2,000

- 2.2 4. Melissa Sartini's gross pay is \$62,000 a year. The state income tax rate is 3 percent of taxable wages. Sartini takes a married exemption for herself and her husband. Using Figure 2.1, how much is withheld a year for state income tax?

Figure 2.2. Use this table with the question(s) below, as needed.

Graduated Tax Table

Taxable Wages	Tax Rate
First \$2,000	2.0%
Next \$4,000	3.0%
Next \$4,000	4.5%
Over \$10,000	6.0%

- 2.3 5. Amanda Sabino's taxable income is \$24,900. Use Figure 2.2 to find out how much she'll pay in state tax.
- 2.4 6. Dana Gould's gross weekly pay is \$376. Her earnings to date for the year total \$28,712. What amount is deducted from her pay per week for Social Security, which is taxed at 6.2 percent?
- 2.5 7. Mychele Dover is employed at Sigma Systems. She has family medical coverage through the group medical plan that Sigma Systems provides for its employees. The annual cost of Dover's family membership is \$6,800. The company pays 53 percent of the cost. How much is deducted from her weekly paycheck for medical insurance?

Figure 2.5. Use this table with the question(s) below, as needed.

PERSONAL EXEMPTIONS	
Single	\$1,500
Married	\$3,000
Each Dependent	\$750
STATE TAX	
Annual Gross Pay	Tax Rate
First \$3,500	3%
Next \$3,500	4.5%
Over \$7,000	7%

- 23 8. William Seitz's annual salary is \$10,200. He takes a single exemption and one for his son, Nicholas. Using the graduated income tax rates in Figure 2.5, find the annual state tax withheld.

Figure 3.1. Use this chart with the question(s) about the Thompson family below. (questions 9 and 10)

A MONEY MANAGER FOR <i>Thompson Family</i>		DATE <u>10/01/--</u>	
MONTHLY LIVING EXPENSES		MONTHLY FIXED EXPENSES	
Food/Grocery Bill	\$232.00	Rent/Mortgage Payment	\$ 675.00
Household Expenses		Car Payment	\$ 178.50
Electricity	\$167.20	Other Installments	
Heating Fuel	\$ 45.09	Appliances	\$ _____
Telephone	\$ 31.87	Furniture	\$ _____
Water	\$ 13.07	Regular Savings	\$ 75.00
Garbage/Sewer Fee	\$ 16.33	Emergency Fund	\$ 50.00
Other	\$ _____	TOTAL	\$ 978.50
TOTAL	\$ _____	ANNUAL EXPENSES	
Transportation		Life Insurance	\$ 250.00
Gasoline/Oil	\$ 25.00	Home Insurance	\$ 240.00
Parking	\$ _____	Car Insurance	\$ 475.00
Tolls	\$ _____	Real Estate Taxes	\$1400.00
Commuting	\$ _____	Car Registration	\$ 26.50
Other	\$ _____	Pledges/Contributions	\$ 200.00
Personal Spending		Other	\$ _____
Clothing	\$ 30.00	TOTAL	\$ _____
Credit Payments	\$ 60.00	MONTHLY SHARE	
Newspaper, Gifts, Etc.	\$ 25.00	(Divide by 12)	\$ _____
Pocket Money	\$ 57.00	MONTHLY BALANCE SHEET	
Entertainment		Net Income	
Movie/Theater	\$ 5.00	(Total Budget)	\$ _____
Sporting Events	\$ 12.00	Living Expenses	\$ 505.00
Recreation	\$ _____	Fixed Expenses	\$ 978.50
Dining Out	\$ 10.00	Annual Expenses	\$ _____
TOTAL	\$ 505.00	TOTAL MONTHLY	
		EXPENSES	\$ _____
		BALANCE	\$ _____

- 32 9. Use Figure 3.1. How much do the Thompsons spend monthly for real estate taxes?

- 32 10. Use Figure 3.1. What is the Thompsons' monthly share of their annual expenses?

- 3.3 11. Bella Sanchez's budget and expenditure for personal items during the month of July is shown below. How much less did Sanchez spend than she budgeted?

Personal	Budget	Expenditure
Clothing	\$30.00	\$ 35.17
Toiletries	60.00	\$ 49.64
Newspapers, gifts	20.00	\$ 25.00

- 4.1 12. Colleen McHugh wishes to deposit checks for \$71.44, \$32.09, and \$8.64 into her account. She would like to receive \$200.00 in cash. What is her total deposit?

- 4.2 13. Which of the following is the correct word form to write on a check for the amount \$647.32

- 4.6 14. Latoya Johnson uses United Bank online banking. One month she paid the basic charge, 5 bills, and requested a printed statement. United's online banking charges are shown below. What are Johnson's total fees for the month?

Service	Fee
Basic Monthly Charge	\$5.50
Bill Payment - first 4 N/C (no charge)	\$0.50
Printed Statement	\$3.50

- 4.5 15. Patrice Rodrick receives her bank statement for the month. Her balance is \$526.17. In comparing her checkbook register, canceled checks, and bank statement, she finds that checks #224 and #250 are outstanding. The amounts are \$32.50 and \$62.80. What is Rodrick's adjusted balance?

- 4.4 16. Martha Chung's bank statement is shown below. Her previous balance was \$132. What is her present balance?

Checks and Other Charges			Deposits and Credits		Balance
Date	Number	Amount	Date	Amount	
2/17	222	\$55.19	2/18	\$313.59	
2/18	223	\$126.48	2/20	\$109.00	
2/22	224	\$310.00	2/27	\$60.00	
Service Charge		\$3.45			

- 4.4 17. Steadman Bailey's bank statement is shown below. What is his present balance?

Previous Balance	\$ 85.20
Deposits	\$694.12
Checks	44.10
Service Charge	4.90
Interest	10.00
Present Balance	

- 5.1 18. Pamela Ericson wants to deposit a check for \$400 and \$55 in cash into her savings account. What is her total deposit?

Figure 5.3. Use this table with the question(s) below, as needed.

Future Value of an Ordinary Annuity for \$1.00 per Period				
Quarterly Period "n"	Rate Per Period			
	0.50%	1.00%	1.50%	2.00%
1	\$1.00000	\$1.00000	\$1.00000	\$1.00000
2	\$2.00500	\$2.01000	\$2.01500	\$2.02000
3	\$3.01502	\$3.03010	\$3.04522	\$3.06040
4	\$4.03010	\$4.06040	\$4.09090	\$4.12161
5	\$5.05025	\$5.10101	\$5.15227	\$5.20404
6	\$6.07550	\$6.15202	\$6.22955	\$6.30812
7	\$7.10588	\$7.21354	\$7.32299	\$7.43428
8	\$8.14141	\$8.28567	\$8.43284	\$8.58297
9	\$9.18212	\$9.36853	\$9.55933	\$9.75463
10	\$10.22803	\$10.46221	\$10.70272	\$10.94972
11	\$11.27917	\$11.56683	\$11.86326	\$12.16872
12	\$12.33556	\$12.68250	\$13.04121	\$13.41209

- 5.8 19. Use Figure 5.3. Florence Rico deposits \$5,000 in an ordinary annuity at the end of each quarter in an account earning 6 percent interest compounded quarterly. What is the future value of the account in 2 years?
- 6.1 20. Linwood Marcus purchased a new couch for \$695 and two end tables for \$95 each. What is the sales tax on his purchase if he lives in Florida where the sales tax rate is 6 percent?
- 6.2 21. Baker Bookstore advertised a deluxe dictionary for \$27.95 and a full-color atlas for \$77.99. The state sales tax is 6 percent, the city tax is 2.5 percent, and the county tax is 1 percent. What is the total purchase price?
- 6.6 22. Jerome Welage is ready to purchase a new lamp. It is regularly priced at \$89.99. The sale price is \$67.49. What is the markdown?
- 6.7 23. The regular selling price of a 22" color television is \$198. The markdown rate is 20 percent. Use the percent paid to determine the sale price.
- 6.7 24. The regular selling price of a mountain bike is \$485. The markdown rate is 15 percent. Use the percent paid to determine the sale price.
- 7.2 25. Dudley Greene's charge account statement shows an unpaid balance of \$980.11. The monthly finance charge is 1.85 percent of the unpaid balance. What is the finance charge?
- 7.1 26. Clarence Alexander's charge account statement showed a previous balance of \$10,650, a finance charge of \$32.82, new purchases of \$12.01, and a payment of \$9,375.00. What is his new balance?

Figure 8.1. Use this table with the question(s) below, as needed.

MONTHLY PAYMENT ON A \$100 LOAN				
Term in Months	Annual Percentage Rate			
	8.00%	10.00%	12.00%	14.00%
6	17.06	17.16	17.25	17.35
12	8.70	8.79	8.88	8.98
18	5.91	6.01	6.10	6.19
24	4.52	4.61	4.71	4.80
30	3.69	3.78	3.87	3.97
36	3.13	3.23	3.32	3.42
42	2.74	2.83	2.93	3.03
48	2.44	2.54	2.63	2.73

8.3 27. Use Figure 8.1. Katie Cole purchased a mountain bike with an installment loan that has an APR of 8 percent. The mountain bike sells for \$495. The store financing requires a 20 percent down payment and 30 monthly payments. What is the finance charge?

10.4 28. Tammy Websterson obtained a 30-year, \$125,000 mortgage loan from People's Savings. The interest rate is 5.5%. For the first payment, what is the interest?

Liability Premium						
Property Damage Limits	Bodily Injury Limits					
	25/50	25/100	50/100	100/200	100/300	300/300
\$ 25,000	\$206.40	\$218.00	\$213.20	\$251.00	\$258.00	\$285.80
50,000	212.40	224.80	237.20	258.00	264.00	292.20
100,000	220.80	233.20	245.60	266.40	272.40	301.20

Physical Damage Premium							
Coverage	Age Group	Insurance-Rating Group					
		10	11	12	13	14	15
Comprehensive \$50-Deductible	A	\$76.80	\$81.60	\$95.20	\$108.00	\$122.00	\$135.60
	B	65.20	77.60	90.40	102.40	115.60	128.80
	C	62.00	74.00	86.00	98.00	110.40	122.80
	D	59.20	70.40	82.00	93.20	105.20	116.80
Collision \$50-Deductible	A	\$225.60	\$245.00	\$266.80	\$287.20	\$307.60	\$328.00
	B	214.00	233.20	253.20	272.40	291.60	311.20
	C	204.00	222.80	241.60	260.00	278.40	296.80
	D	194.40	212.00	230.00	247.60	265.20	282.80

30. (9.4)
 Pearl E. White wants to purchase the following auto insurance coverage: 100/300 Bodily Injury Limits, \$100,000 Property Damage Limits, \$50 Comprehensive Deductible, and \$50 Collision Deductible. Her rating is B 11 and her driver-rating factor is 2.3.
 What is her annual base premium? _____
 What is her annual premium? _____
 What is her monthly premium? _____

Final Test Review Key

1. \$31.44
2. 37 hours
3. \$3,000
4. \$1,740
5. \$1,234
6. \$54.31
7. \$61.46
8. \$4,529
9. \$116.67
10. \$215.96
11. \$0.19
12. \$92.30
13. Six hundred forty-seven and $\frac{32}{100}$ dollars
14. \$9.50
15. \$430.87
16. \$119.47
17. \$740.32
18. \$655.00
19. \$42,164.20
20. \$53.10
21. \$82.06
22. \$25.50
23. \$158.40
24. \$412.25
25. \$18.14
26. \$1,319.83
27. \$84.32
28. \$572.92
- ~~29. \$84.73~~
30. A. \$583.20
B. \$1,341.36
C. \$111.78