# Financial Algebra

## Semester 1

# Practice Exam

Name_____Date_____

Teacher_____Period_____

1. Kyle Rayner, an electrician, earns $12.25 an hour during a regular workweek. Last week he worked his regular 40 hours. What is his straight-time pay for the week?

$_____

2. As a stock boy, Robert Gordon earns $8.80 an hour for a 40-hour workweek. His overtime rate is time-and-a-half. This week he worked his regular 40 hours plus 16 hours of overtime. What is his total pay?

$_____

3. Barbara Gordon has the following weekly time card. Find the total for each day to **the nearest quarter hour**. What are her total hours for the week?

| Day | In | Out | In | Out | Daily Hours |
|------|--------|---------|---------|--------|-------------|
| Mon | 8:00am | 12:00pm | 12:35pm | 5:35pm | |
| Tues | 8:25am | 12:25pm | 1:30pm | 5:30pm | |
| Wed | 8:20am | 12:50pm | 1:15pm | 4:15pm | |
| Thur | 8:30am | 1:15pm | 1:45pm | 5:30pm | |
| Fri | 8:45am | 12:30pm | 1:30pm | 5:00pm | |
| | | | | Total hours: | |

4. Polly Darrell is paid on a piecework basis. She is paid $14.95 for each chair she assembles. This week she assembled 30 chairs. What is her pay for the week?

$_____

5. Jeff Charleston is a production manager for Regional Petroleum.  He earns an annual salary of $53,250.

    a.  What is his semimonthly pay?        $_____

    b.  What is his weekly pay?        $_____

6. Juanita Velazquez sells commercial real estate for a 4% straight commission.  Her sales totaled $375,500 in August.  What is her pay for the month?

$_____

7. Rachel Watson is a furniture salesperson.  She earns a graduated commission on sales as shown.  Her sales for 1 week totaled $5525.  What was her total commission?

        6% on the first $1500

        10% on the next $3000

        12% on the anything over $4500

$_____

8. Jerri Monaghan, a manager, earns $452.50 a week.  She is married and claims 2 allowances.  How much is withheld from her weekly paycheck for federal income tax?

| Weekly Payroll Married Person | | | | |
|---|---|---|---|---|
| | | Allowances withheld | | |
| Wages | | | | |
| At least | But less than | 0 | 1 | 2 |
| 430 | 440 | 55 | 49 | 43 |
| 440 | 450 | 57 | 50 | 44 |
| 450 | 460 | 58 | 52 | 46 |
| 460 | 470 | 60 | 53 | 47 |
| 470 | 480 | 60 | 55 | 49 |

$_____

9. Vanessa Jones earns $46,000 a year as an historian. The state income tax rate is 3.5% of taxable income. Her personal exemptions total $3500. How much is withheld **each week** from Rebecca's gross pay for state income tax?

$_____

10. Jason Bodes, a weatherman, earns an annual salary of $45,525. He is paid biweekly. His personal exemptions total $3000. How much is deducted each pay period from his paycheck for state income tax?

| State Tax | |
|---|---|
| Taxable Wages | Tax Rate |
| First $2000 | 2% |
| Next $4000 | 3% |
| Next $4000 | 4.50% |
| Over $10,000 | 5% |

$_____

11. Howard Jones, a biologist, is paid $575.25 a week. His earnings to date this year total $23,010.00. The social security tax rate is 6.2% of the first $90,000 earned. How much is deducted from his paycheck this week for social security tax?

$_____

12. Roberta Jeffries, a retail manager, earns $430.50 a week. Her medical insurance costs $3215 a year, of which her company pays 75% of the costs. How much is deducted each week from her paycheck for medical insurance?

$_____

13. Sydney Johnson, an insurance salesman, is married and claims 2 allowances. He earns $520.25 a week. The social security tax rate is 6.2% of the first $90,000 earned. The Medicare tax rate is 1.45% of gross. The state tax is $8.95 a week. He has weekly deductions of $20 for medical insurance and $35 for payroll savings. Use the FIT table to find Jacob's federal tax withheld. What is his net pay for a week?


Social Security = _____

Medicare=_____

State Tax = _____

Medical Insurance = _____

Payroll Savings = _____

FIT = _____

Total withholdings = _____          Net Pay = _____


14. You are a tour guide earning $28,500 annually, single and claim 1 allowance. The social security tax rate is 6.2% of the first $90,000 earned. The Medicare tax rate is 1.45% of gross. The state tax is 1% of your gross pay and the local tax is 1.25% of gross pay. You pay $25 a week to the credit union and $15.75 a week for medical insurance. Use the FIT table to find your federal tax withheld. What is your net pay for a week?

Weekly Gross Pay = _____

Social Security = _____

Medicare=_____

State Tax = _____

Local Tax = _____

Credit Union = _____

Medical Insurance = _____

FIT = _____

Total withholdings = _____          Net Pay = _____

15. A portion of Cheryl Stone's deposit slip is shown.  What is her total deposit?

|  |  | Dollars | Cents |
|---|---|---|---|
| Cash | Currency |  |  |
|  | Coins | 5 | 85 |
| Checks |  | 87 | 18 |
|  |  | 342 | 41 |
|  | Subtotal |  |  |
|  | Less          Cash Received | 75 | 0 |
|  | TOTAL DEPOSIT |  |  |

16. Marcie Halloway wrote a check to Radio Hut in the amount of $125.80 for the purchase of a home computer.  Fill out the check below completely.

Marcie Halloway                                                          **257**
23 Robin Ln
Fairfield, CT 06430                                      Date_____

Pay to the
ORDER of_____ $_____

_____Dollars

**People's Bank**
Memo_____        _____

17. A portion of Ron Page's check register is shown listing his transactions since June 5.  Find the balance for each date.

| CHECK NO | DATE | DESCRIPTION OF TRANSACTION | PAYMENT/DEBIT | | √ | DEPOSIT/CREDIT | | BALANCE | |
|---|---|---|---|---|---|---|---|---|---|
| BALANCE BROUGHT FORWARD → | | | | | | | | 850 | 31 |
|  | 6/5 | Deposit | | | | 410 | 90 | | |
| 082 | 6/9 | Miller's Hardware | 50 | 97 | | | | | |
| 083 | 6/18 | Corner Drug Store | 45 | 96 | | | | | |

18. A portion of Monica Brute's bank statement is shown. Her balance from last month's statement was $742.50. What is her present balance?

| CHECKS AND OTHER CHARGES | | | DEPOSITS AND CREDITS | | BALANCE |
|---|---|---|---|---|---|
| DATE | NUMBER | AMOUNT | DATE | AMOUNT | |
| 10/4 | 902 | 42.95 | 10/8 | 335.35 | |
| 10/6 | 904 | 31.21 | 10/22 | 391.61 | |
| 10/15 | 903 | 285.00 | | | |
| SERVICE CHARGE | | 8.35 | | | |

19. Sam Miller deposited $65.89 in currency and checks for $102.20 and $149.37 in his savings account. What was his total deposit?

$_____

20. Carol Smith has to withdraw $350.40 from her savings account. Fill out the withdrawal slip completely.

BRIDGETOWN BANK & TRUST

_____0113014_____.

DATE_____20____.          SAVINGS ACCOUNT NUMBER

_____DOLLARS          $_____.

_____.

SIGN HERE

WITHDRAWAL

21. On September 13<sup>th</sup>, James Moore deposited $235.75 in his savings account. What is the new balance?

| DEPOSITOR: James Moore | | | | |
|---|---|---|---|---|
| DATE | WITHDRAWAL | DEPOSIT | INTEREST | BALANCE |
| 8/24 | | | | $415.80 |
| 9/13 | | 235.75 | | |

22. Harry Stone's savings account statement shows a previous balance of $597.30, a withdrawal of $204.83, total deposit of $352.92, and interest of $1.93. What is the new balance?

$_____

23. Ned Beuler deposited $355.75 in a savings account that pays an annual interest rate of 5.25%. He made no other deposits or withdrawals. How much simple interest did his money earn:

   a. in 3 months? $_____

   b. in 6 months? $_____

   c. in 1 year?    $_____

24. Burt Reynolds deposited $875.30 in a regular savings account that earns 5% interest compounded quarterly. He made no other deposits or withdrawals. What is the total amount in his account at the end of the first quarter?

$_____

25. Bruce Banner, a writer for Clock Magazine, earns $75,540 annually. His medical insurance costs $4,200, of which Clock Magazine pays 40% of the costs. How much does Kyle pay annually (in dollars) for medical insurance?

$_____

26. Denise Richards works for the phone company and earns $55,000 annually. Her medical insurance costs $3,500, of which the phone company pays 60% of the costs. How much (in dollars) is deducted each week from her weekly paycheck for medical insurance?

$_____

27. Rachel O'Keefe keeps records of her family's expenses. Total monthly expenses for January, February, and March were $1565.45, $1642.55, and $1405.08, respectively. What was the average monthly expenditure?

$_____

28. Complete the budget sheet below.  Find the:


a) Total Monthly Living Expenses    _____

b) Total Monthly Fixed Expenses     _____

c) Total Annual Expenses            _____

d) Monthly Share of Annual Expenses _____

e)  Total Monthly Expenses          _____

f)  Balance                         _____


A MONEY MANAGER FOR___Nancy and Joe Thomas___DATE___7/20/03 .

| MONTHLY LIVING EXPENSES | | MONTHLY FIXED EXPENSES | |
|---|---|---|---|
| Food/Grocery Bill……….. | $ 210.00 | Rent/Mortgage Payment…..…. | $ 915.20 |
| Household Expenses | | Car Payment…………………. | $_____. |
|   Electricity…………........ | $ 85.65 | Other Installments | |
|   Heating Fuel……………. | $ 93.75 |   Appliances…………………... | $ 67.75 |
|   Telephone……………….. | $ 41.47 |   Furniture…………….....….. | $ 115.80 |
|   Water…………………... | $ 51.80 | Regular Savings……….....…. | $ 175.00 |
|   Garbage/Sewer Fee……. | $ 27.21 | Emergency Fund……....…….. | $ 50.00 |
|   Other_Security___ …….. | $ 55.00 | TOTAL…………….....………. | $ **#28(b)** . |
|   _____………. | $_____. | ANNUAL EXPENSES | |
| Transportation | | Life Insurance……….....……. | $ 780.00 |
|   Gasoline/Oil…………….. | $ 90.00 | Home Insurance………………. | $ 280.00 |
|   Parking………………….. | $ 35.00 | Car Insurance…………………. | $ 475.00 |
|   Tolls…………………….. | $ 12.00 | Real Estate Tax………………. | $ 1200.00 |
|   Commuting……………… | $ 40.00 | Pledges/Contributions……….. | $ 45.00 |
|   Other__Misc._____…….. | $ 35.00 |   Other…………………….… | $_____. |
| Personal Spending | | TOTAL………………………... | $ **#28(c)** . |
|   Clothing…………………. | $ 100.00 | MONTHLY SHARE(divide by 12) | $ **#28(d)** . |
|   Credit Payments……….. | $ 25.00 | MONTHLY BALANCE SHEET | |
|   Newspapers, Gifts, Etc… | $ 26.75 | Net Income | |
|   Pocket Money…………… | $ 50.00 | (Total Budget) | $ 3200.00 |
| Entertainment | |   Living Expenses: | $_____. |
|   Movies/Theater…………. | $ 30.00 |   Fixed Expenses: | $_____. |
|   Sporting Events…………. | $ 30.00 |   Annual Expenses | $_____. |
|   Recreation……………… | $ 45.00 | TOTAL MONTHLY | |
|   Dining Out………………. | $ 52.00 |   EXPENSES…………………. | $ **#28(e)** . |
| TOTAL……………………. | $ #**28(a)**. |   BALANCE……………………. | $ **#28(f)** . |

29. Use the Budget Sheet from the previous page.

The Thomas family had planned to spend $250 on transportation costs.

Did they spend more or less than they had planned? (yes/no) _____

How much more or less did they spend? $_____

30. Use the appropriate tables and given information to fill in the Deductions and the Net Pay.

Social Security is 6.2% of the first $90,000 and Medicare is 1.45% of all income. Use the Federal Tax Table for FIT. The state tax rate is 3% of gross pay and the local tax is 1.5% of gross pay.

Roger Moore is single and has two allowances.

| Dept | Employee | Check # | Gross Pay | Net Pay |
|---|---|---|---|---|
| 37 | Roger Moore | 1924 | $900.00 | |

| FIT | FICA | Medicare | State | Local | Medical | Union Dues | other |
|---|---|---|---|---|---|---|---|
| | | | | | $55.35 | $75.00 | ---- |

31. Estell Bettison sees that 16-oz bottle of dish detergent is on sale for $2.99. To the nearest tenth of a cent, what is the unit price? (2 pts).

_____

32. Ann Francis purchases a $98.95 leather handbag, a pair of running shoes for $82.50, and four knit tops at $32 each. The sales tax rate is $6\frac{3}{4}$% on all purchases. (2 pts each).

    a. What is the sales tax on her purchases?

.

_____

    b. What is the total purchase price?

_____

33. Jan Carter purchased 4 boxes of snack crackers for $1.69 per box. She uses two coupons, one for $0.32 and one for $0.65. What is the final price of the crackers? (2 pts).

_____

34. You buy a IPod for $49.95 plus 5% sales tax. You can get a $3.50 rebate by mailing in the rebate from along with the proof of purchase and your sales receipt. If an envelope costs $0.10 and a stamp costs$0.42, what is the final price of the IPod after rebate? (2 pts).

_____

35. Rueben Creighton purchased a summer suit that regularly sells for $289.95. The suit was discounted 35%. (2 pts each).

    c. What is the markdown?

_____

    d. What is the sales price?

_____

36. Martha Tucker decided to redecorate her family room.  She purchases a gallon of paint for $28.95 and 8 rolls of wallpaper that costs $7.95 each.  There is a sales tax of 6.5%.  She charges the purchases to her bankcard.  How much did Martha pay for supplies? (2 pts).

_____

37. Barbara is buying toothpaste.  She sees an 10oz tube for $2.99 and a 16oz tube for $4.59.  Which one is the better buy?  (2 pts).

_____