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CONSUMER MATH FINAL EXAM REVIEW

1) Wanda works as an electrician with the Electric Company. She earns \$17.25 per hour with time and a half after 40 hours. If she works 44 hours Monday through Friday, how much will she earn? _____

2) Cassie earns \$7.28 per hour. She earns time and a half after 40 hours. She usually works 40 hours per week, but last week she worked an extra 8-hour shift. How much did she earn last week? _____

3) Peter sells computer parts. He receives a weekly salary of \$250 plus an 8% commission on all sales. His sales for the week total \$4,125. How much did he earn this week? _____

4) What is the annual salary for someone who earns a bimonthly salary of \$927? _____

5) Jim earns an annual salary of \$72,400. What is his weekly salary? _____

| | Gross Pay | Federal Tax | State Tax | Soc. Sec. Tax | Medicare | Health Insurance | Total Deductions | Net Pay |
|----|------------------|--------------------|------------------|----------------------|-----------------|-------------------------|-------------------------|----------------|
| 6) | \$712 | \$108.70 | \$35.69 | \$44.09 | \$10.31 | \$49.37 | _____ | _____ |
| 7) | \$412 | \$46.54 | \$20.06 | \$25.55 | \$5.97 | \$27.19 | _____ | _____ |

8) Sasha goes to buy groceries. She buys 2 packages of corn (99¢ per package), 3 gallons of milk (\$3.90 per gallon), and a loaf of bread (\$1²⁹). She gives the clerk \$20.00 for her purchases. How much change does Sasha get back? _____

9) Gabe has a 40¢-off coupon for any kind of popcorn. He can choose between 16 ounces of Happy Popcorn for \$1.39 or 34 ounces of Popper Popcorn for \$2.79. Using the coupon, which brand of popcorn is the better buy per ounce? _____

10) The local department store is having their annual 25%-off sale. The

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regular prices for these purchases are: dress (\$64.99), shoes (\$46.00), coat (\$149.98), and purse (\$59.00). Find the total price for these purchases.

11) What would be the total price of #10 with 5% sales tax?

Denim Shirt

Soft 100% cotton denim shirt. Prewashed for a relaxed fit. Chest pocket, stitching, long sleeves, two-button cuffs. Machine wash. Made in USA. Colors: Light Indigo, Dark Indigo, Washed Gold, Smoke Gray, Dusty Red.

| | | |
|----------------|----------------------------------------------------|----------------------|
| <i>DSM9426</i> | <i>Men's Sizes S34-36, M38-40, L42-44, XL46-48</i> | <i>..... \$32.50</i> |
| <i>DSW9427</i> | <i>Women's Sizes S6-8, M10-12, L14-16, XL18-20</i> | <i>..... \$28.50</i> |

Shipping & Handling

Total Price

| | |
|--------------------|------------|
| \$0-\$30..... | \$4.75 |
| \$30.01-\$70 | \$5.95 |
| Over \$70 | \$6.85 |
| Next Day | Add \$6.00 |

12) Devin orders a men's shirt size L and a women's shirt size M. He adds shipping and handling charges and 6% sales tax. What is the total cost of his order? There is no tax on shipping and handling, only on the clothing.

13) Melissa orders three size L women's shirts in Dark Indigo, Washed Gold, and Dusty Red. She adds shipping and handling. No sales tax is charged. What is the total cost of her order?

14) A dress normally sells for \$35.85. How much does the dress cost after a 15% discount??

15) Amy's income is \$788 every two weeks. Use the renter's rule (one week pay = one month rent) to compute the most Amy should spend for rent each month.

16) If Amy pays \$385 for rent each month, what is her total rent paid in one year?

17) Mr. Morris earns \$35,000 per year and plans to buy a house. Use the banker's rule (2.5 times yearly salary) to determine his maximum allowable mortgage.

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- 18) Joyce wants to buy a house for \$129,500 with a 20% down payment. How much will her down payment be? _____
- 19) What is the amount of the mortgage for Joyce's house in #18? _____
- 20) Amanda buys a new car whose base price is \$8,380. She orders an CD player for \$185 and an automatic transmission for \$575. She pays \$422 for transportation and handling. What is the total price ? _____
- 21) Determine the actual cost, including interest of a \$3,670 used car with a down payment of \$200 and 48 monthly payments of \$78 each. _____

| Monthly Payments per \$1000 | | | | | | | |
|-----------------------------|--------|--------|---------|---------|---------|---------|---------|
| Years | 7% | 8% | 9% | 10% | 11% | 12% | 13% |
| 15 | \$8.99 | \$9.56 | \$10.14 | \$10.75 | \$11.37 | \$12.00 | \$12.65 |
| 20 | \$7.75 | \$8.36 | \$9.00 | \$9.65 | \$10.32 | \$11.01 | \$11.72 |
| 25 | \$7.07 | \$7.72 | \$8.39 | \$9.09 | \$9.80 | \$10.53 | \$11.28 |
| 30 | \$6.65 | \$7.34 | \$8.05 | \$8.78 | \$9.52 | \$10.29 | \$11.06 |
| 35 | \$6.39 | \$7.10 | \$7.84 | \$8.60 | \$9.37 | \$10.16 | \$10.95 |
| 40 | \$6.21 | \$6.95 | \$7.71 | \$8.49 | \$9.28 | \$10.08 | \$10.90 |

Directions: Use the above table for problems 22 and 23.

- 22) What is the monthly payment on a 9% 30-year mortgage for \$75,000? _____
- 23) Compute the total amount repaid on a mortgage for \$72,000 at 8% for 30 years. _____
- 24) How long will it take to drive 286 miles at an average speed of 55 miles per hour? _____

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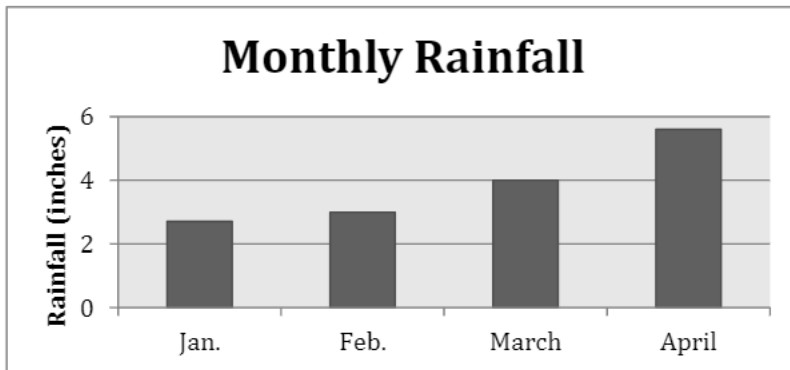
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- 25) Hillary works as a waitress and records the amount she makes in tips each night. Find the mean for the set of data:

53, 75, 61, 68, 85, 75, 72, 88, 62

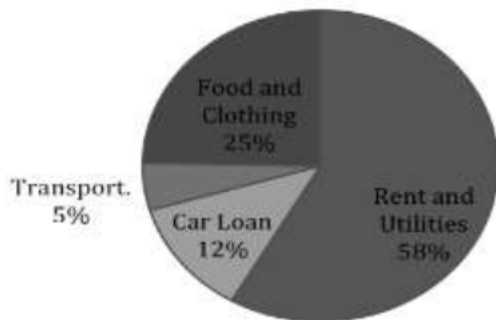
- 26) Find the median of the set of data in **Question 25**.

- 27) The bar graph shows the monthly rainfall during four months of the year. In which month did it rain about 4 inches ?



- 28) Use the circle graph to answer. Arlene's monthly net income is \$1,115. Calculate how much income is spent on rent & utilities?

Arlene's Budget



- 29) Bess puts a \$690 camcorder on layaway. She is required to make a 30% deposit. How much will Bess have to pay to get her camcorder out of layaway?

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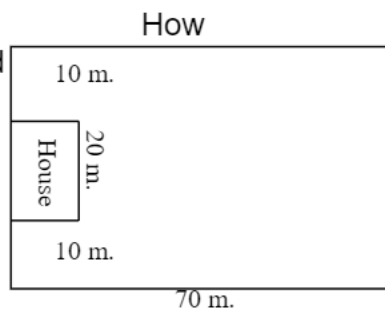
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30) Slalom Ski Shop is having a sale. All items in the store are 35% off. Hans buys \$298 skis, \$140 boots, \$58 ski pants, and \$27.90 poles. How much does he save?

31) David wants to buy a couch for \$896 with a 20% discount. What is the new price?

32) If one gallon of paint covers 250 square feet, how many gallons are needed to cover 1900 square feet?

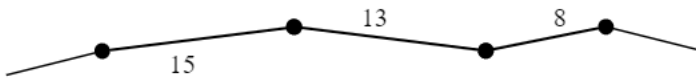
33) Grass seed covers 325 m^2 per box. How many boxes will you need if your yard looks like the one at the right?



34) How much fence do you need for a yard 220 ft by 75 ft.?

35) Louis buys a kitchen table on January 22 and uses the 90-day plan. By what day must the total be paid? It is not a leap year.

36) What is the distance from Phillipsburg to Hackettstown?



Use the table at the right for problem 37.

| <i>Sunnyside Inn Daily Rates</i> | | | |
|----------------------------------|----------|--------------------------|----------|
| April 20 - Sept. 8 | | Sept. 9 - Dec. 19 | |
| Single | \$47.50 | Single | \$39.50 |
| Double | \$59.50 | Double | \$49.50 |
| Suite | \$135.50 | Suite | \$115.50 |
| Dec. 20 - Jan. 31 | | Feb. 1 - April 19 | |

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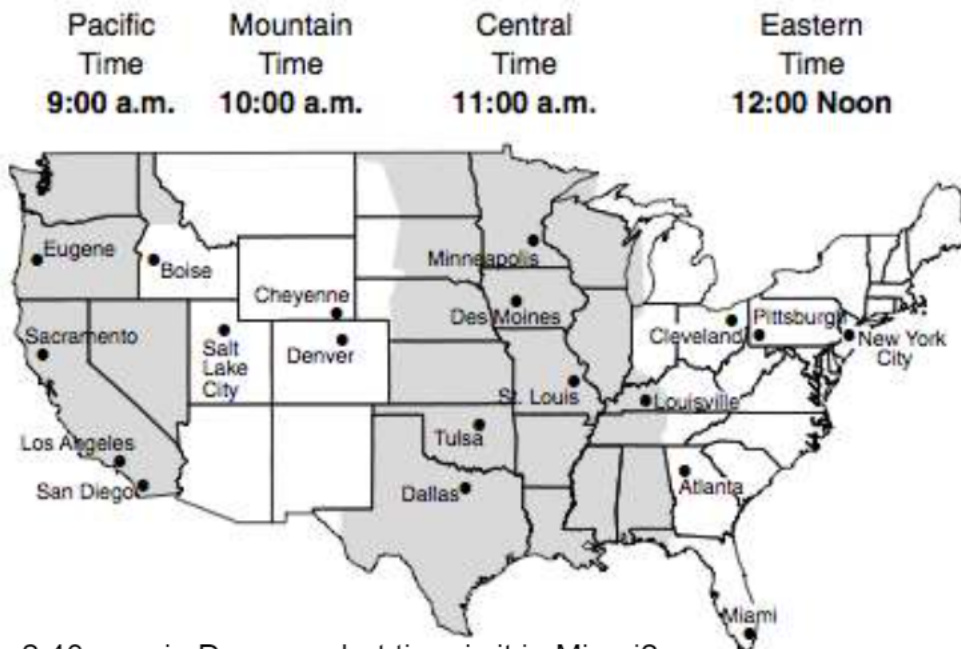
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| | | | |
|--------|----------|--------|----------|
| Single | \$59.50 | Single | \$79.50 |
| Double | \$67.50 | Double | \$87.50 |
| Suite | \$170.50 | Suite | \$190.50 |

- 37) Two friends go to the beach from July 7 to July 11. The one-way bus fare is \$32.45 per person. Find the cost per person to stay at the inn and round trip bus fare for this trip. Assume they get a double room and split the cost. _____

Use the time zone map below for problems 38 – 40.



- 38) If it is 2:40 p.m. in Denver, what time is it in Miami? _____
- 39) If it is 3:20 a.m. in Miami, what time is it in San Diego? _____
- 40) If a flight departs from Minneapolis at 9:50 a.m. and arrives in Los Angeles at 11:45 a.m., how long is the flight? _____
- 41) Antonio wants to rent a compact car for 9 days. Ace rents these cars for \$48 per day and \$312 per week. Compute the cost of each plan for him. Which plan is more economical? _____

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42) Find the balance forward.

| | |
|-----------------|----------|
| Balance forward | \$395.18 |
| Deposit | \$100.00 |
| Check #114 | \$201.12 |
| ATM withdrawal | \$40.00 |
| Check #115 | \$84.69 |

43) Art deposited 10 - \$20 bills, 7 - \$5 bills, 40 quarters, 25 nickels, and a check for \$38.50. Find the amount of his deposit.

44) The balance on Rochelle's charge account is \$243.96. When the bill comes, she makes a \$50.00 payment. The interest rate is 1.5% on the unpaid balance. If she does not make any additional charges, what will her new balance be next month?

45) Cynthia drives 522.5 miles in 9 hours and 30 minutes. What is her average speed?

46) If gas costs \$1.79 per gallon, what is the cost to fill a 19-gallon tank?

47) Find the total lease cost of the following vehicle:

Luxury Car
Pays \$475 per month for 48 months
Deposit of \$475
Title Fee of \$65
License Fee of \$85

48) Gina rented a car for 3 days at \$35 per day plus \$0.20 per mile. She took the collision waiver for \$9.95 per day. She drove the car 652 miles. Gasoline cost \$57. What was the total cost for renting the car (to the nearest cent)?

49) Kelly's car has an EPA rating of 45 mpg. If gas costs \$1.76 per gallon, how much will she spend for a 550 mile trip?

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50) Barb's car needs new brakes. They cost \$450. It will take $3\frac{1}{2}$ hours at \$65 per hour to replace them. There will be a 6% sales tax on the brakes, not labor. What will her total bill be? _____

51) Refer to the premium table below. Joan wants to buy a 20/40/10 liability insurance policy. How much will the total premium be if she lives in an average risk area? _____

| Area | Liability Insurance Premiums | | | | | | | |
|------------------|------------------------------|-------|-------|--------|-----------------|------|------|-------|
| | Personal Injury | | | | Property Damage | | | |
| | 10/20 | 20/40 | 40/80 | 75/150 | 5 | 10 | 25 | 50 |
| High Risk | \$210 | \$470 | \$610 | \$835 | \$72 | \$84 | \$99 | \$148 |
| Average | \$167 | \$339 | \$470 | \$620 | \$56 | \$69 | \$77 | \$98 |
| Low Risk | \$140 | \$229 | \$340 | \$489 | \$48 | \$52 | \$61 | \$73 |

52) Fill in the following chart

| | How often do you get paid? | How many times a year do you get paid? |
|---------------------|----------------------------|----------------------------------------|
| Weekly | | |
| Biweekly | | |
| Semi-Monthly | | |
| Bimonthly | | |
| Monthly | | |

53) Based on the chart above, if you earn \$5,995.83 bimonthly, how much do you earn ANNUALLY?

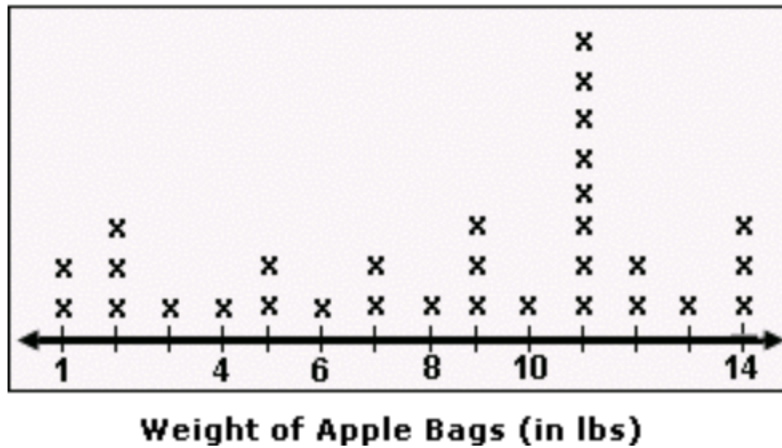
54) Find the Mean, Median, Mode, and Range for the line plot below.

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Apple Bags Sold at a Food Mart



55) You are booking a vacation at the The Dunes Motel, in Ocean City, MD. You are planning on getting an Oceanside Efficiency room for 4 nights, at \$185 per night. You are also planning on getting Daily Bus passes each day to get around. A daily bus pass is \$3. What will the total cost be for both the hotel and the daily bus passes?

56) In words, explain what *Banker's Rule* and *Renter's Rule* are.

57) Tom works full time as a waiter at the local Applebee's. He earns \$4.75 per hour plus tips. He made \$470 in tips one week and \$501 in tips the next week. How much will Tom have earned after 2 weeks

58) You are going to buy a new Vizio 32 inch E- series at Best Buy. The original price is \$239.99, but Best Buy is currently having a 15% off sale. How much will the TV cost after the discount and with a 7% sales tax?

Use the tax table below for problems 59-61.

| | Filing Status | Taxable Income | Tax Due |
|-----|---------------|----------------|---------|
| 59) | Single | \$45,150 | _____ |

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60) Married, filing jointly \$45,225 _____

61) Tianna's taxable income is \$45,278. Her employer withheld \$7,646 for the year. Determine the amount to be refunded or the balance due. Tianna is married, filing separately.

Circle one:
Refund
Balance Due

| If line 43 (taxable income) is— | | And you are— | | | |
|---------------------------------|---------------|--------------|--------------------------|---------------------------|---------------------|
| At least | But less than | Single | Married filing jointly * | Married filing separately | Head of a household |
| Your tax is— | | | | | |
| 45,000 | | | | | |
| 45,000 | 45,050 | 7,185 | 5,861 | 7,185 | 6,116 |
| 45,050 | 45,100 | 7,198 | 5,869 | 7,198 | 6,124 |
| 45,100 | 45,150 | 7,210 | 5,876 | 7,210 | 6,131 |
| 45,150 | 45,200 | 7,223 | 5,884 | 7,223 | 6,139 |
| 45,200 | 45,250 | 7,235 | 5,891 | 7,235 | 6,146 |
| 45,250 | 45,300 | 7,248 | 5,899 | 7,248 | 6,154 |
| 45,300 | 45,350 | 7,260 | 5,906 | 7,260 | 6,161 |
| 45,350 | 45,400 | 7,273 | 5,914 | 7,273 | 6,169 |
| 45,400 | 45,450 | 7,285 | 5,921 | 7,285 | 6,176 |
| 45,450 | 45,500 | 7,298 | 5,929 | 7,298 | 6,184 |
| 45,500 | 45,550 | 7,310 | 5,936 | 7,310 | 6,191 |
| 45,550 | 45,600 | 7,323 | 5,944 | 7,323 | 6,199 |
| 45,600 | 45,650 | 7,335 | 5,951 | 7,335 | 6,206 |
| 45,650 | 45,700 | 7,348 | 5,959 | 7,348 | 6,214 |
| 45,700 | 45,750 | 7,360 | 5,966 | 7,360 | 6,221 |
| 45,750 | 45,800 | 7,373 | 5,974 | 7,373 | 6,229 |
| 45,800 | 45,850 | 7,385 | 5,981 | 7,385 | 6,236 |
| 45,850 | 45,900 | 7,398 | 5,989 | 7,398 | 6,244 |
| 45,900 | 45,950 | 7,410 | 5,996 | 7,410 | 6,251 |
| 45,950 | 46,000 | 7,423 | 6,004 | 7,423 | 6,259 |