

1. Bob made a 15% down payment on a car that is priced at \$56,000. Find out how much Bob still owes on his car.	a. \$8400	<b>b. \$47,600</b>	c. \$19,800	d. \$46,400	e. \$35,600
2. The local department store prices its clothing at 29% above the whole sale value. What is the wholesale value of a sweater that the local department store sells for \$39.99?	a. \$33.50	b. \$15.45	c. \$49.98	<b>d. \$31.00</b>	e. \$24.54
3. What number decreased by 66 $\frac{2}{3}$ % is 27?	a. 54	b. 67.2	c. 41	<b>d. 81</b>	e. 75.5
4. An item is sold for \$30 after a 40% discount. Find the original price.	a. \$12.00	b. \$53.00	c. \$54.25	d. \$27.00	<b>e. \$50.00</b>
5. Of all the employees at Bonnie's Burger Barn, twelve earn \$5.00 an hour, seven earn \$4.50 an hour, three make \$7.45 an hour, and four make \$5.60 an hour. What is the mean wage made per hour at Bonnie's?	a. \$5.36	b. \$5.18	<b>c. \$5.24</b>	d. \$5.39	e. \$5.52
6. Juan wants to paint a room that is 22 ft. long, 18 ft. wide, and 11 ft. high. One gallon of paint covers 420 ft. How many gallons of paint does Juan need?	a. 1 gal	b. 2 gal	<b>c. 3 gal</b>	d. 4 gal	e. 5 gal
7. John Collins sells vacuum cleaners. He either earns \$530 a month or 9.5% of his sales, whichever is greater. How much does he make in a month if his total sales are \$5807?	a. \$5530.00	b. \$535.20	c. \$575.00	<b>d. \$551.67</b>	e. \$530.00
8. Telephone charges for a month are \$17 plus \$0.13 per call. Marty can only spend \$25 per month on his phone bill. How many calls can he make a month?	a. 34 or less	b. 47 or less	c. 53 or less	<b>d. 61 or less</b>	e. 66 or less
9. What will your balance be if you invest \$500 at 8.4% annual interest compounded quarterly for one year?	a. \$543.00	b. \$539.90	c. \$544.24	d. \$532.68	<b>e. \$543.34</b>
10. Solve the proportion: $\frac{7}{9} = \frac{11}{n}$ .	a. 123/16	b. 151/3	<b>c. 14 <math>\frac{1}{7}</math></b>	d. 12	e. 1372
11. Which account earns the most (simple) interest after one year?	a. \$4000 at 12% per year	<b>b. \$6500 at 7.6% per year</b>	c. \$9000 at 5.4% per year	d. \$5200 at 9.4% per year	e. \$11,400 at 4.1% per year
12. Linda wrote a check for \$54.17 on Wednesday. On Thursday, she deposited \$69.46 in her checking account. On Saturday, she wrote checks for \$43.00 and \$37.54, she also deposited \$74.50 in her account. What was her account's net gain or net loss for the week?	<b>a. +\$9.25</b>	b. -\$7.46	c. -\$134.71	d. -\$9.25	e. +\$3.94
13. The monthly interest rate on a credit card's unpaid balance is 1.7%. If the balance is \$177.49, what is the new balance?	<b>a. \$180.51</b>	b. \$175.12	c. \$174.37	d. \$174.48	e. \$207.66
14. Anne Fitzpatrick has crashed her car. The total damage comes to \$3075. Her insurance company requires a \$750 deductible. For the rest of the expenses, the insurance company pays 80%. How much did Anne have to pay to fix her car?	a. \$1200	b. \$1275	<b>c. \$1215</b>	d. \$2575	e. \$3075
15. 42.75% of what number is 171 ?	a. 325	b. 337	c. 360	d. 385	<b>e. 400</b>

16. Janet has invested money in a computer corporation. Her stock had the following changes last week: Monday, -1 7/8; Tuesday, -4 1/4; Wednesday, +7 1/2, Thursday, -5 3/4; Friday, +2 1/8. What was the net change for her stock for the week?	a. -1 1/2	<b>b. -2 1/4</b>	c. +1 1/4	d. -2 3/8	e. +2 1/8
17. Otto invests \$500 in a savings account at 10% compounded semi-annually. Sarah invests \$500 in a savings account at 10% compounded quarterly. After a year and a half, how much more money will Sarah have than Otto?	a. \$10.30	<b>b. \$1.03</b>	c. \$10.57	d. \$2.37	e. \$23.70
18. Jerry Anderson sells pots for a living. During a special sale, he sold large pots for \$33 and small pots for \$16. If he sold 127 pots and made a total of \$3426, how many large pots did he sell?	<b>a. 82</b>	b. 93	c. 104	d. 79	e. 98
19. A house has a market value of \$220,000. The assessment rate is 51%, and the tax rate is \$1.91 per \$150. Find the property tax.	<b>a. \$1428.68</b>	b. \$790.50	c. \$3154.45	d. \$5472.94	e. \$6785.43
20. Jocelyn Bellows wants to buy a motorcycle that is priced at \$11,500. She makes a 25% down payment and 36 monthly payments of \$275.50. Find the total amount paid for the motorcycle	a. \$11,500	b. \$9875.50	<b>c. \$12,793</b>	d. \$11,750.50	e. \$12,238
21. A 2-foot length of rope costs \$0.88. How much would a 9-inch length of rope cost?	a. \$1.26	b. \$1.71	c. \$0.65	<b>d. \$0.33</b>	e. \$0.44
22. Kevin Simpson's gross pay for a week is \$373.45. Out of his check each week \$6.25 is taken for state tax, \$27.90 for federal tax, \$1.12 for local tax, and \$6.05 for medical insurance. What is his annual net pay (he works 48 weeks a year)?	a. \$12,787.16	<b>b. \$15,942.24</b>	c. \$16,117.37	d. \$14,323.11	e. \$16,766.89
23. Missy took out a loan from a friend. She borrowed \$13,000 with an interest rate of 16% every two years. It took her a year and a half to pay off the loan. How much interest did she pay?	a. \$6495	b. \$4340	<b>c. \$1560</b>	d. \$1650	e. \$2300
24. Derek mows lawns to make money. He charges \$10 a lawn. He puts 20% of his Earnings into a Christmas club. Also, after every lawn, he treats himself to a Chocolate Yummy candy bar, which costs \$1.00. How many lawns must he mow to make at least \$90 a week?	a. at least 16	b. at least 15	c. at least 14	<b>d. at least 13</b>	e. at least 12
25. What is the total amount you will earn if you invest \$7000 at 8.5% for 6 years.	a. \$9405.14	<b>b. \$11,420.27</b>	c. \$16,570	d. \$8900.57	e. \$12,241.16
26. How much simple interest is charged on a loan of \$6000 at 9.85% annual interest for 5 years?	a. \$396.45	b. \$400	c. \$2643.50	d. \$1980.35	<b>e. \$2955</b>

27. A red rectangle has a blue triangle in one of its comers. The rectangle is 590 cm by 280 cm. The triangle is 290 cm along one side of the rectangle and 70 cm along the other side. What is the area of the red section of the rectangle?	<b>a. 155,050cm<sup>2</sup></b>	b. 162,750cm <sup>2</sup>	c. 171,500cm <sup>2</sup>	d. 176,490cm <sup>2</sup>	e. 183,430cm <sup>2</sup>
28. Meghan Ford sells cars for a living. She gets 7.9% commission on the price of each car she sells. Last her car dealership received \$687,543 total for all the cars she sold. Find her commissions for the year.	a. \$49,675.50	b. \$5900.36	c. \$405,075.54	<b>d. \$54,315.90</b>	e. \$58,565.30
29. The regular price of a doghouse is \$48. The sale price is \$36.25. What is the rate of discount?	<b>a. 24.5</b>	b. 29.6	c. 47	d. 16.7	e. 36
30. Frank has \$400. His parents said they would give him 6% of the money he already has, if he is good. Since Frank was good all week, how much money does he know have?	a. \$800	<b>b. \$424</b>	c. \$445	d. \$600	e. \$24
31. Lonni invested \$2200 at 6.5% simple annual interest. She has \$7800 more to invest. At what rate must she invest the \$7800 to have a total of \$11,000 at the end of the year?	a. 9.5	b. 10	c. 10.5	<b>d. 11</b>	e. 11.5
32. Find the balance at the end of two years: \$700 at 11% annual interest compounded semi-annually.	a. \$659.97	<b>b. \$867.17</b>	c. \$1102.07	d. \$911.13	e. \$1053.60
33. The T-Shirt Store is having a 20% discount on all of its merchandise this week. Also, if the bill is paid all at once, instead of using a payment program, an additional 7% is deducted. Sammy buys twelve t-shirts that would normally cost \$87. If he pays up front how much does he spend? (Hint: Compute the discounts separately.)	a. \$51.50	<b>b. \$64.73</b>	c. \$49.98	d. \$57.84	e. \$36.49
34. This month, Jacob has purchased \$63 worth of merchandise on his Supercard. He still owes \$55.14 on his bill from last month. For unpaid balances the Supercard Company charges 2.1%. What does Jacob owe?	<b>a. \$119.30</b>	b. \$134.90	c. \$147.60	d. \$122.20	e. \$107.10
35. Judson's bank statement showed a balance of \$10,347.49. His personal record showed a balance of \$9959.43. He had two outstanding checks of \$49.30 and \$347.52. His statement showed \$5.47 in interest. Reconcile his account.	a. \$8677.15	b. \$9760.43	<b>c. \$9950.67</b>	d. \$8836.71	e. \$9956.14
36. Eddie has a piece of string that is 4798 feet 1.25 inches. How many quarter inch lengths of string could he make out of this piece of string?	a. 23,799	b. 211,407	c. 221,431	<b>d. 230,309</b>	e. 300,975
37. A small cornfield has an area of 258 square feet. What is its area in square yards?	a. 74 yd <sup>2</sup>	b. 79 yd <sup>2</sup>	<b>c. 86 yd<sup>2</sup></b>	d. 89 yd <sup>2</sup>	e. 93 yd <sup>2</sup>
38. In how many ways can first, second, and third prizes be awarded in a contest of 45 people?	a. 45!3!	b. 3x2x1	c. 4.5	<b>d. 45x44x43</b>	e. 45!

39. A cylinder has a 7-foot radius and is 12 feet tall. A second cylinder has the same radius, but is 5- feet taller. How many bushels of grain could the second cylinder hold? (Hint: One cubit foot = 0.8035 bushels)	a. about 656 bushels	b. about 742 bushels	c. about 65 bushels	<b>d. about 412 bushels</b>	e. about 74 bushels
DIRECTIONS: For problems 40-41, use the chart below where monthly mortgage payments can be calculated on a 30-year note for certain interest rates.					
<b><u>Interest Rates</u></b>	<b><u>Monthly Payment per \$1000 for 30-year mortgage/fixed rate</u></b>				
5%	\$5.49				
6%	\$6.07				
7%	\$6.67				
8%	\$7.29				
9%	\$7.95				
10%	\$8.64				
11%	\$9.35				
12%	\$10.08				
40. How much money will you save each month when borrowing \$156,000 at 6%, instead of 10%, on a 30-year loan?	a. \$100.32	b. \$207.86	c. \$342.59	<b>d. \$400.92</b>	e. \$516.72
41. Mr. Percel bought a \$450,000 home at 6% annual interest on a 30-year note. His annual property tax is 1.2% of the value of the house. What is his total monthly payment of mortgage plus property tax?	<b>a. \$3181.50</b>	b. \$3267.85	c. \$2498.75	d. \$2977.45	e. \$3170.65
42. A 40-L tank fills at the rate of 200 ml per minute. How long does it take for the tank to fill?	a. 50 min.	b. 20 min.	<b>c. 200 min.</b>	d. 350 min.	e. 150 min.
43. Shelly went to the store knowing that the blouse she wanted to buy was \$56.90. When she arrived at the store she found that the blouse had been discounted 1.8% Find the discount price	a. \$37.05	b. \$43.54	<b>c. \$54.93</b>	d. \$55.88	e. \$46.66
44. What is the better buy? Choose from the following:	a. 11b7oz bag of flour for \$2.56	b. 2lb 8oz bag of flour for \$3.29	c. 2lb 15oz bag of flour for \$4.65	d. 3lb bag of flour for \$4.72	<b>e. 5lb 4oz bag of flour for \$5.87</b>
45. Lindsay McDaniel's annual taxable income is \$67,300. Her state income tax rate is 4.3% of the first \$15,000 and 5.5% of the amount over \$15,000. Find her total state income tax	a. \$10,988.14	b. \$8699.37	c. \$7872.89	d. \$9866.46	<b>e. \$3,521.50</b>
46. Wesley Dale has a health insurance that requires him to pay a \$370 deductible. The insurance pays 85% of the remaining expenses. Last year, Wesley had \$1030 in medical expenses. How much did the insurance company pay?	a. \$437	<b>b. \$561</b>	c. \$597	d. \$610	e. \$679
47. Anthony received \$500 last week in commissions. Anthony's sales totaled at \$3840. What was his rate of commission?	a. 10%	b. 11.5%	<b>c. 13%</b>	d. 13.5%	e. 15%

48. Bob's car lot pays its salesmen on commission. For the first \$7000, they are paid 5% commission and anything over \$7000, they are paid 8.5%. T.J. earned \$15,500 last month for Bob's car lot. What was his commission?	a. \$957.80	b. \$1107.90	c. \$988.45	<b>d. \$1072.50</b>	e. \$1237.70
49. Jenny dark bought a new car for \$11,500. She made a 30% down payment and 48 payments of \$175. Find what she paid altogether for her car.	<b>a. \$11,850</b>	b. \$10,795	c. \$11,500	d. \$12,075	e. \$11,675
50. On Thursday, Bart put \$279.73 in his checking account. The next day, he wrote a check for \$76.13 and one for \$17.67. If on Wednesday his account had \$612.73, find the new balance.	a. \$650.01	b. \$737.43	c. \$761.22	<b>d. \$798.66</b>	e. \$807.96

DIRECTIONS: Use the credit card statement below to answer questions 51-53.

DATE	REFERENCES	DEPT	DESCRIPTION	PURCHASES	PAYMENTS	CREDIT
2-03	78432	07	Novel			\$53.20
2-08	35721	09	Bicycle	\$113.04		
2-11	65489	04	Jacket	\$101.92		
2-17	13527	05	Tie			\$17.63
2-25	80031	11	Payment		\$35.00	

PREVIOUS BALANCE	CLOSING DATE LAST MONTH	CLOSING DATE THIS MONTH
\$175.46	January 31, 1998	February 28, 1998

Total Purchases	Payments & Credits	Finance Charge	Periodic Rate	New Balance	Minimum Payment
\$214.96			1.8%		\$25.00

Use These Formulas:

Unpaid balance = previous balance - (payments + credits)

Finance charge = periodic rate x unpaid balance

New balance = unpaid balance + finance charge + new purchases

51. Find the total of all the payments and credits in this statement.	a. \$98.73	b. \$70.83	c. \$35	d. \$107.56	<b>e. \$105.83</b>
52. Find the Finance Charge.	a. \$1.07	b. \$1.17	<b>c. \$1.25</b>	d. \$1.31	e. \$1.47
53. Find the New Balance.	a. \$287.39	<b>b. \$285.84</b>	c. \$301.60	d. \$279.98	e. \$289.05
54. Violet invests \$1500 in a savings account that earns 7% annual interest compounded semi-annually. She also invests \$500 in a CD that earns 9% annual interest compounded semi-annually. How much interest will Violet earn from these investments by the end of the year?	a. \$150.00	b. \$28.79	<b>c. \$152.85</b>	d. \$30.80	e. \$31.71

55. Mary Johnson bought a new insurance policy at the beginning of the year. The policy stated that she would have to pay a \$150 deductible. For the remaining expenses, the insurance company will pay 65% of the first \$600 and 95% of anything over \$600. After Mary's car accident, her medical bills totaled \$1875. Find what the insurance company paid toward the bill.	a. \$987.86	b. \$1680.54	<b>c. \$1458.75</b>	d. \$1225.50	e. \$1307.03
56. Denny has a container in his back yard that he keeps wood for his fireplace in. The dimensions for his container are 6 ft by 5 ft by 9 ft, or 270 cubic feet. How many stacks of wood, 3 ft by 5 ft by 6 ft, could Denny fit in his container?	a. 1	b. 2	<b>c. 3</b>	d. 4	e. 5
57. Marsha bought 1 3/4 pounds of cashews, 5/8 pounds of almonds, and 1 1/2 pounds of peanuts. How many pounds of nuts did she buy?	a. 3 1/7 pounds	<b>b. 3 7/8 pounds</b>	c. 3 1/8 pounds	d. 3 5/8 pounds	e. none of the above
58. You have \$150.00 and you buy 2 shirts for \$19.95 each, 3 ties at \$7.47 each, and a pair of slacks for \$29.50. You must pay a sales tax of 5%. How much change will you receive?	<b>a. \$53.60</b>	b. \$35.06	c. \$50.60	d. \$53.06	e. \$55.66
59. The tax rate for the village of Ellis is \$62.12 per \$1000 of assessed value. Find the tax to be aid on a property assessed at \$18,780.	<b>a. \$1,166.61</b>	b. \$1,616.61	c. \$1,161.11	d. \$1,166.16	e. \$1,661.11
60. What was the approximate total enrollment at Central High School if there are 492 students in the 9th grade, 415 students in the 10th grade, 397 students in the 11th grade, and 395 students in the 12th grade?	a. 1600 students	b. 1400 students	<b>c. 1700 students</b>	d. 1500 students	e. 1650 students