Overview

The ability to solve common business mathematical problems is a basic skill needed by all prospective business employees. This event provides recognition for FBLA members who have an understanding of basic math functions needed in business.

This event is only for members in grades 9 and 10.

Competencies

The topics listed below are prioritized, listing first the most important content areas of the test. .

- Basic math concepts
- Decimals
- Fractions

- Percentages
- Discounts
- Consumer credit

Procedures/Tips

Review the Competitive Events Tips in the front of the book.

Web Site Resources

- http://www.assetaide.com/depreciation/calculation.html
- http://www.321know.com/g84 max1.htm
- http://www.learner.org/interactives/dailymath/meters_liters.html
- http://www.wsdot.wa.gov/reference/metrics/factors.htm
- http://math.about.com/od/businessmath/tp/businessmathtp.htm

Business Math Sample Questions 1. Which of the following 4 numbers is the largest: 3/8, .0375, 2/5, or .25? b. 2/5 c. .25 d. 3/8 2. Mr. Brown can buy a digital camera for the cash price of \$299.99 or pay the installment price of \$25 down and \$21.09 a month for 15 months. How much can he save by paying cash for the camera? a. \$ 8.64 b. \$16.36 c. \$25.95 d. \$41.36 3. The swimming pool in your back yard is 15 yards long, 9 yards wide, and 4.5 feet deep. How many cubic feet of water does your swimming pool hold? a. 607.50 cu. ft. b. 1,822.50 cu. ft. c. 67.50 cu. ft. d. 5,467.50 cu. ft. Use for the next 3 questions. Internet traffic on Google is being monitored by their Web master. The total numbers of visitors to the site last week by day are: Mon. = 37,988Tues. = 43,905Wed. = 58.106Thurs. = 60,561Fri. = 76,145 What is the mean of people surfing the Internet for these days? a. 55,341 b. 50,867 c. 58,789 d. 52,564 5. What is the range of these numbers? a. 37,988 b. 76,145 c. 58,106 d. 38,157 6. What is the median of the people surfing the Internet last week? a. 37,988 b. 60,561

7. Gerald bought a 25-foot roll of wire. After using 2/3 of the roll of wire, how many feet of wire are left

c. 58,106d. 76,145

unused? a. 15 2/3 b. 16 2/3 c. 8 1/3 d. 9 1/3 Use for the next 4 questions.

List Price	Trade Discount Rate	Complement	Net Price
\$180.00	20%		
\$65.45			\$44.51

- 8. Compute the net price for the list price of \$180.00 using the complement of trade discount using the table above.
 - a. \$ 72.00
 - b. \$108.00
 - c. \$144.00
 - d. \$ 36.00
- 9. Compute the complement trade discount for the list price of \$65.45 in the table above.
 - a. 32%
 - b. 68%
 - c. 14.7%
 - d. 85.3%
- 10. Compute the trade discount rate for the list price of \$65.45 using the table above.
 - a. 32%
 - b. 14.7%
 - c. 85.3%
 - d. 68%
- 11. Find the complement of the trade discount rate for the list price of \$180.00 using the table above.
 - a. 80%
 - b. 20%
 - c. 60%
 - d. 40%
- 12. Find the product of 1-1/4 and 1-1/3.
 - a. 1-2/3
 - b. 2-2/7
 - c. 3/5
 - d. 1-1/12
- 13. Ellen used 3/4 dozen sheets of photo paper to print her pictures. How many twelfths is 3/4?
 - a. 5/12
 - b. 11/12
 - c. 9/12
 - d. 7/12
- 14. Kathy earns \$2,580 a month. She has chosen to save 1/3 of her income this year. How much money will Kathy be saving each month?
 - a. \$ 860.00
 - b. \$ 816.00
 - c. \$1,720.00
 - d. \$ 806.00
- 15. What is the sum of 4/5 and 2/3?
 - a. 3/4
 - b. 23/15
 - c. 8/15
 - d. 17/15

- 16. Find the quotient of 3/5 divided by 1/2.
 - a. 3 1/3
 - b. 11/5
 - c. 3/10
 - d. 1
- 17. Find the product of 0.973 and 1.918.
 - a. .01866214
 - b. 18.66214
 - c. .1866214
 - d. 1.866214
- 18. Trent Dillon was comparing prices for frozen turkeys. A 3 lb. turkey was priced at \$4.92, 5 lb. turkey was priced at \$7.95, 7 lb. turkey at \$10.50, and 9 lb. turkey at \$13.77. Which turkey is the best buy?
 - a. 9 lb. turkey
 - b. 5 lb. turkey
 - c. 7 lb. turkey
 - d. 3 lb. turkey
- 19. Find the quotient for .2415 divided by .007.
 - a. 345.0
 - b. 3.450
 - c. .3450
 - d. 34.5
- 20. Find the product of 7/8, 2 3/4, 7.4, and 0.16.
 - a. 1.554
 - b. 15.54
 - c. .2849
 - d. 2.849
- 21. Find the mean for 5.7 + 6.3 + 4.2 + 5.8 + 3.4.
 - a. 5.1
 - b. 25.4
 - c. 6.3
 - d. 5.08
- 22. Find the monthly finance charge for an average daily balance of \$145.59 and annual percentage rate of 24%.
 - a. \$ 29.11
 - b. \$291.18
 - c. \$ 2.91
 - d. \$ 34.94

Use for the next 2 questions: Elaine Jackson purchased 2 sweaters at \$24.99 each, a belt for \$14.49, slacks for \$19.79, shoes for \$54.49, and 5 pairs of socks for \$3.99 a pair.

- 23. How much did Elaine spend before sales tax was added?
 - a. \$144.21
 - b. \$142.74
 - c. \$133.71
 - d. \$158.70

- 24. Assuming Elaine's sales tax is 6-3/4%, what was Elaine's total cost?
 - a. \$153.94
 - b. \$142.74
 - c. \$152.37
 - d. \$169.41

Use for the next 3 questions.

New Balance	Previous Balance	Finance Charge	New Purchases	Payments	Credits
	\$332.64	\$4.05	\$62.24	\$50.00	\$48.02
\$426.00		\$6.00	\$120.00	\$100.00	None
\$466.21	\$550.75		\$57.50	\$120.00	\$30.00

- 25. Compute the new balance using the information in Row 1 of the table above.
 - a. \$302.91
 - b. \$494.95
 - c. \$394.95
 - d. \$294.81
- 26. Compute the finance charge using the information in Row 3 of the table above.
 - a. \$84.24
 - b. \$ 7.96
 - c. \$ 9.62
 - d. \$32.50
- 27. Compute the previous balance using the information in Row 2 of the table above.
 - a. \$400.00
 - b. \$444.00
 - c. \$412.00
 - d. \$452.00
- 28. Find the decimal for 9.1%.
 - a. .0091
 - b. 91.0
 - c. .091
 - d. .910
- 29. The Denver Ski Shop is selling a pair of ski boots at 22% below its regular price of \$260. How much does the buyer pay for the boots?
 - a. \$254.28
 - b. \$202.80
 - c. \$238.00
 - d. \$ 57.20
- 30. Jerrica O'Reilly deposited \$800 into a savings account at Nations National Bank. The account earned an annual interest rate of 5 1/2%. What was her interest after three months?
 - a. \$ 13.20
 - b. \$110.00
 - c. \$132.00
 - d. \$ 11.00

		
Business Law Answer Key 1) C	11) B	21) B
2) A	12) A	22) B
3) B 4) D	13) B . 14) C	23) D 24) D
5) D	15) D	25) B
6) D 7) B	16) B 17) B	26) C 27) D
8) C	18) D	28) B
9) D 10) C	19) A 20) A	29) D 30) C
Business Math Answer Key	,	
1) B	11) A	21) D
2) D 3) D	12) A 13) C	22) C 23) D
4) A	14) A	24) D
5) D 6) C	15) D 16) B	25) A 26) B
7) C	17) D	27) A
8) C 9) B	18) C 19) D	28) C 29) B
10) A	20) D	30) A
Business Procedures Answ 1) B	er Key 11) C	21) C
2) D	12) B	22) A
3) C 4) A	13) C 14) C	23) C 24) C
5) C	15) D	25) D
6) D 7) D	16) A 17) C	26) C 27) D
8) D	18) B	28) D
9) C 10) C	19) B 20) C	29) A 30) C
Computer Applications Ans	· · · · · · · · · · · · · · · · · · ·	33, 3
1) A	11) D	21) C
2) D 3) B	12) D 13) D	22) B 23) A
4) A	14) D	24) B
5) B 6) A	15) D 16) C	25) D 26) A
7) B	17) B	27) A
8) A 9) D	18) A 19) C	28) C 29) D
10) D	20) B	30) C
Computer Problem Solving	Answer Key 11) B	21) C
1) C 2) A	12) D	22) D
3) C	13) C 14) B	23) A 24) A
4) C 5) B	15) C	25) A
6) C	16) B 17) B	26) D 27) C
7) A 8) A	18) A	28) D
9) C	19) B	29) B 30) D
10) C	20) C	JU) D