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 an objective test and only for members in grades 9 and 10.

Competencies and Task Lists
http://www.fbla-pbl.org/docs/ct/FBLA/BUSINESSMATH.pdf

Web Site Resources
- How to Calculate Depreciation
  http://www.assetaide.com/depreciation/calculation.html
- Markup
  http://www.321 know.com/q84 maxl .htm
- Meters and Liters: Converting to the Metric System of Measurements
  http://www.learner.orQ/interactives/dailvmath/meters liters.html
- The Metrics International System of Units
  http://www.wsdot.wa.gov/reference/metrics/factors.htm
- Top 6 Business Math Resources
  http://math.about.com/od/businessmath/tp/businessmathtp.htm

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BUSINESS MATH SAMPLE QUESTIONS

1. 27 cubic feet is equal to how many cubic yards?
   a. 3 cubic yards
   b. 2.3 cubic yards
   c. 9 cubic yards
   d. 1 cubic yard

2. Which one of these is the most reasonable estimate of how long it would take an adult to walk five miles?
   a. 1.5 hours
   b. 5 hours
   c. 25 minutes
   d. 2 hours

3. What is the total cost including shipping and handling for a $20.15 order with a rate of 10 percent and minimum charge of 3.00?
   a. $22.20
   b. $24.15
   c. $25.35
   d. $23.15

4. A dress selling for $45 was reduced by $9. By what percent was the item discounted?
   a. 20 percent
   b. 22 percent
   c. 36 percent
   d. 5 percent

5. A bicycle has been marked down by 40 percent to $120. What was its original price?
   a. $200
   b. $195
   c. $210
   d. $180

6. Phil bought an $89.95 ski jacket that was discounted 20 percent, $24.95 ski gloves that were discounted 30 percent, and $18.49 ski goggles that were discounted 40 percent. Determine the discounted price of the three items.
   a. $103.01
   b. $100.52
   c. $91.53
   d. $102.37

7. 15/25 is equivalent to:
   a. 4/5
   b. 3/5
   c. 15/25 is the lowest equivalent
   d. 2/5

8. If a business grew by 212 percent in one year, what would be the decimal equivalent?
   a. 21.2
   b. 21.20
   c. .0212
   d. 2.12

9. Carmelita makes $18.60 an hour when she works overtime. This week her paycheck stub indicates that $269.70 was earned in overtime. How many overtime hours did she work this week?
   a. 14 hours
   b. 13.5 hours
   c. 14.5 hours
   d. 15 hours

10. If the monthly rate of interest is 1.75 percent, what would be the annual rate of interest?
    a. 21 percent
    b. 12 percent
    c. 17.5 percent
    d. 18 percent

11. Katelyn earns 8 percent interest on a certificate of deposit. Her bank statement shows that $80 has been earned in interest. How much is her certificate now worth?
    a. $1,000
    b. $1,080
    c. $1,008
    d. $1,800

12. 35 percent of what amount is $72?
    a. $2,057.15
    b. $250.71
    c. $205.71
    d. $2,057.10

13. The symbol < means:
    a. to round the number
    b. greater than
    c. to point to the left
    d. less than

14. When multiplying any number times *zero,* the resulting product is *always:*
    a. a three-digit number
    b. a two-digit number
    c. one hundred
    d. zero

15. When requesting an order of merchandise or materials, the originating document is referred to as a:
    a. net price
    b. purchase order
    c. discount price
    d. sales invoice

16. The smallest number that can be divided evenly by each original denominator is the:
    a. least common denominator
    b. prime number
    c. most common denominator
    d. sum of the numerators

17. When homes and other real estate are financed, the installment loans are known as:
    a. purchase prices
    b. mortgages
    c. unsecured loans
    d. open credit

18. Rename 63 percent as a decimal.
    a. .0063
    b. 6.3
    c. .63
    d. 63.00

19. Which one of the following is three hundred seventy-three thousandths written in correct decimal format?
    a. 373,000.00
    b. .0373
    c. 0.373
    d. .30073

20. You found a pair of jeans you would like to purchase. The original price states they are $70.00, however, the store is offering a 33 percent discount for preferred customers. Since you are vacationing and have never been in that store before, what can you expect to pay for those jeans?
    a. $46.90
    b. $70.00
    c. $23.10
    d. $93.10

21. Find the amount of trade discount offered for a purchase of $7,800 less a 25 percent discount.
    a. $19.50
    b. $19,500
    c. $1,950
    d. $195

22. Find the due date of a three-month loan made on April 15.
    a. July 15
    b. June 15
    c. July 16
    d. August 15

23. Rename 3/8 as a decimal.
    a. 0.375
    b. .0375
    c. 3.75
    d. 37.5

24. Round 2,748 to the nearest hundred.
    a. 2,800
    b. 2,750
    c. 2,740
    d. 2,700

25. When changing from one unit of measurement to another, a conversion factor is used to:
    a. multiply one unit of measure to obtain the equivalent of the other unit of measure
    b. add to one unit of measure to obtain the equivalent of the other unit of measure
    c. divide one unit of measure to obtain the equivalent of the other unit of measure
    d. subtract from one unit of measure to obtain the equivalent of the other unit of measure

26. In statistics, the word "mean" is:
    a. the ordinary arithmetic average
    b. of no value
    c. the middle number in a series of numbers
    d. the most frequent number in a listed series of numbers

27. A landscaper needs several pieces of tubing to irrigate a lawn. Each piece must be 6 ft. 8 in. in length. If he buys a 20 ft. long tube, how many pieces of the needed length can he cut?
    a. 3
    b. 3 1/3
    c. 30
    d. 4

28. Jay's Hardware & Supplies buys 1,000 6 oz. jars for 3.5 cents each and 2,000 10 oz. jars for 5.5 cents each. What is the total cost for the jars?
    a. $110.00
    b. $145.00
    c. $1,450.00
    d. $35.00

29. Ying earns $9.50 per hour. If her weekly gross pay was $139.65, how many hours did she work?
    a. 147
    b. 14.7
    c. 68.2
    d. 6.8

30. Hugo borrows $1,000 from his mother and promises to pay her back in one year at 6 percent interest. How much total will Hugo pay back for the loan?
    a. $1,160.00
    b. $1016.67
    c. $1,060.00
    d. $166.67

Business Law Answer Key

1)	A	11)	C	21)	D
2)	D	12)	A	22)	B
3)	C	13)	B	23)	B
4)	B	14)	A	24)	B
5)	B	15)	B	25)	D
6)	C	16)	A	26)	B
7)	C	17)	C	27)	C
8)	D	18)	C	28)	A
9)	D	19)	C	29)	D
10)	D	20)	A	30)	C

Business Math Answer Key

1)	D	11)	B	21)	C
2)	D	12)	C	22)	A
3)	D	13)	D	23)	A
4)	A	14)	D	24)	D
5)	A	15)	B	25)	A
6)	B	16)	A	26)	A
7)	B	17)	B	27)	A
8)	D	18)	C	28)	B
9)	C	19)	C	29)	B
10)	A	20)	B	30)	C

Business Procedures Answer Key

1)	B	11)	A	21)	A
2)	C	12)	B	22)	D
3)	B	13)	A	23)	C
4)	A	14)	C	24)	D
5)	A	15)	C	25)	C
6)	C	16)	B	26)	C
7)	B	17)	B	27)	D
8)	A	18)	D	28)	A
9)	A	19)	D	29)	A
10)	C	20)	B	30)	C

Computer Applications Answer Key

1)	C	11)	A	21)	C
2)	B	12)	D	22)	B
3)	B	13)	C	23)	A
4)	B	14)	C	24)	A
5)	B	15)	C	25)	B
6)	C	16)	A	26)	D
7)	D	17)	A	27)	D
8)	A	18)	A	28)	D
9)	D	19)	D	29)	B
10)	D	20)	C	30)	B

Computer Problem Solving Answer Key

1)	D	11)	D	21)	D
2)	C	12)	C	22)	D
3)	C	13)	B	23)	B
4)	B	14)	B	24)	A
5)	D	15)	C	25)	B
6)	C	16)	C	26)	B
7)	B	17)	A	27)	D
8)	A	18)	D	28)	B
9)	D	19)	C	29)	C
10)	A	20)	D	30)	B