# *Business Computations – Middle Level*

***The written objective test may include questions on items related to business such basic math concepts, decimals, fractions, percentages, and discounts.***

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| 1. b | 1. | Phillip has $600 in his savings account earning 5 ¾% annual interest. After 12 months, and using the simple interest method, what amount of interest will he have earned?  a. $345  b. $34.50  c. $31.50  d. $315.00 |
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| 2. c | 2. | George worked at three jobs in there weeks. In the first week, he earned $310. In the next week, he was paid $334. In the third week, he was paid $307. What average pay per week did George earn for these three weeks?  a. $951  b. $978  c. $317  d. $326 |
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| 3. c | 3. | Eddie is paid $8.40 an hour for regular time worked. He is paid time and a half for any hours worked above 40 hours. This week Eddie worked 39 hours. What is Eddie’s pay for the five-day work week?  a. $336  b. $491.40  c. $327.60  d. $337.60 |
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| 4. a | 4. | Valerie owed Mademoiselle Fashions $360.57 on her charge account on December 1. What is the minimum amount Valerie must pay on her December 1 balance if the store requires a minimum payment of 20 percent of the balance?  a. $72.11  b. $28.84  c. $$27.11  d. $72.15 |
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| 5. b | 5. | Roger purchased merchandise for $100.70. He lives in a state where the state sales tax rate is 6 percent. What was the total amount due, including sales tax?  a. $107.64  b. $106.74  c. $6.04  d. $106.47 |
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| 6. d | 6. | Millie bought two radial tires at $49.95 each and two seat cushions at $16.99 each. The sales tax where she lives is 6 percent. What was the total amount of the purchase?  a. $99.90  b. $33.98  c. $133.88  d. $141.91 |
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| 7. c | 7. | Find the cost per pound of a 32-pound grass seed mixture that cost a total of $67.20.  a. 3.20  b. 1.10  c. 2.10  d. 2.20 |
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| 8. b | 8. | A teacher paid $.79 for one pen. How much would the teach pay for 15 pens?  a. $11.06  b. $11.85  c. $12.64  d. $11.70 |
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| 9. c | 9. | A boy has 5 red marbles and 3 blue marbles in his bag. If he picks out 1 marble, what is the probability it is a blue marble?  a. 1/3  b. 3/5  c. 3/8  d. 1/8 |
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| 10. c | 10. | A garage is 26 feet long and 24 feet wide. How many square feet are there in the garage?  a. 100  b. 676  c. 624  d. 625 |
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| 11. d | 11. | A customer purchased an item costing $17.00 in a state having a sales tax rate of 4%. Find the amount of change the customer will receive from a $20.00 bill.  a. $.68  b. $1.92  c. $2.20  d. $2.32 |
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| 12. d | 12. | The advertising department spends 65% of its budget on TV ads. If their total budget is $78,000, how much do they spend on TV ads?  a. $54,500  b. $51,800  c. $58,400  d. $50,700 |
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| 13. a | 13. | A production worker earns a salary of $3,750 per month. What is the worker’s annual salary?  a. $45,000  b. $39,000  c. $44,300  d. $37,500 |
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| 14. a | 14. | If you flip two coins, what is the probability of getting heads on each coin?  a. .25  b. .75  c. 1  d. .5 |
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| 15. d | 15. | A parking lot charges $2.50 for the first hour, or fraction thereof, and $1.25 for each additional hour, or fraction thereof. How much will it cost to park there for 5 ¾ hours?  a. $7.50  b. $8.25  c. $6.25  d. $8.75 |
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| 16. c | 16. | Find 24% of $388.  a. $293.12  b. $93.88  c. $93.12  d. $294.88 |
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| 17. a | 17. | Your chapter has been invited to attend the national conference. Each member must raise $1,150.00 to go. Janice is able to save $25.00 per week from her job. How many weeks must she save to raise enough money for the national conference?  a. 46 weeks  b. 41 weeks  c. 52 weeks  d. 36 weeks |
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| 18. a | 18. | What is 18 + -26?  a. -8  b. -44  c. 8  d. 44 |
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| 19. b | 19. | What is the absolute value of -15?  a. 1.5  b. 15  c. -15  d. -1.5 |
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| 20. c | 20. | Garry and Louise traveled 665.4 miles on a trip using 40.3 gallons of fuel. What was their gas mileage on this trip?  a. 21.5 miles per gallon  b. 26.6 miles per gallon  c. 16.5 miles per gallon  d. 15.6 miles per gallon |
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| 21. d | 21. | Change 27/50 to a decimal.  a. 5.04  b. 5.40  c. 0.45  d. 0.54 |
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| 22. a | 22. | Find the sum of 6, -8, 11, -3, and 4.  a. 10  b. -26  c. -10  d. 14 |
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| 23. d | 23. | Find the decimal for 9.1%.  a. 91.0  b. .910  c. .0091  d. .091 |
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| 24. d | 24 | How many ¼ pound hamburgers can be made from 5 ¾ pounds of meat?  a. 21 hamburgers  b. 18 hamburgers  c. 25 hamburgers  d. 23 hamburgers |
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| 25. a | 25. | Find the monthly finance charger for an average daily balance of $145.59 and annual percentage rate of 24%.  a. $34.94  b. $2.91  c. $29.11  d. $291.18 |
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| 26. c | 26. | Randy has 3 pieces of rope. The first piece of rope is 17.25 yards long, the second is 6.07 yards long, and the third is 30.71 yards long. When asked how many whole yards of rope she has altogether, what should her answer be?  a. 54.06 yards  b. 54 yards  c. 55 yards  d. 54.18 yards |
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| 27. a | 27. | Abby has 47 packs of gum. Each pack contains 5 pieces in it. Approximately how many pieces of gum does she have?  a. 250  b. 200  c. 325  d. 350 |
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| 28. a | 28. | Mike works 5-hour days. He can tie paper bundles together at a rate of 260 per hour. How many paper bundles can he tie together in a day?  a. 1300 bundles  b. 1120 bundles  c. 260 bundles  d. 1040 bundles |
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| 29. b | 29. | Lorie loves fruit punch. She drinks 2 pitchers of it every day. It takes 7 oz. of fruit punch mix to make a pitcher. The store where she buys her fruit punch mix only sells it in 16 oz. containers. How many containers of fruit punch mix must she buy, to drink her regular 2 pitchers a day for a 30-day month?  a. 26 containers  b. 27 containers  c. 25 containers  d. 24 containers |
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| 30. d | 30. | Dana and Craig had a basket-weaving contest. In 4 hours of time, Dana won by 7 baskets. Together they made 33 baskets. How many baskets did Dana make?  a. 13  b. 7  c. 17  d. 20 |
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| 31. a | 31. | Michael works at the local pizza place. He works 5 days a week, 8 hours a day. Every week he makes $230. $15.20 is taken out of hi check every week for taxes. What does Michael make an hour?  a. $5.37  b. $5.02  c. $4.17  d. $6.23 |
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| 32. b | 32. | Calculate the interest on a loan of $8500 at 11% annual interest for 33 months..7  a. $2485.75  b. $2571.25  c. $2554.50  d. $2498.75 |
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| 33. d | 33. | Find the product of 57.2 and 2 3/8.  a. 146.7  b. 139.55  c. 147.75  d. 135.85 |
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| 34. c | 34. | Add eighty-six and twenty-seven fiftieths, six and three fifths, and seventeen and seven-hundred sixty ten-thousandths.  a. 111.117  b. 110.578  c. 110.216  d. 110.413 |
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| 35. a | 35. | Charles earns a gross pay of $390. He works 8 hours a day, 5 days a week. What is his hourly rate?  a. $9.75 an hour  b. $10.75 an hour  c. $11.00 an hour  d. $11.50 an hour |
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| 36. a | 36. | Jill ran the mile in 8 minutes 17 seconds. Jack ran the mile in 6 minutes 43 seconds. Who ran it faster, and by how much?  a. Jack, by 1 minute 34 seconds  b. Jill, by 1 minute 34 seconds  c. Jack, by 1 minute 12 seconds  d. Jill, by 1 minute 26 seconds |
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| 37. b | 37. | Allie is having a party for 180 people. I one container of soda can serve 16 people, how many containers would it take to serve the whole party?  a. 11 containers  b. 12 containers  c. 10 containers  d. 9 containers |
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| 38. d | 38. | Bob turns 16 on March 17th. Alice turns 16 on September 12th. How many days older is Alice?  a. 168 days  b. 178 days  c. 176 days  d. 179 days |
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| 39. a | 39. | To tie a bundle of papers together, David needs 1 ½ feet of string. If there are 26 inches of string in a package and David has to tie up 45 bundles, how many packages of string does he need?  a. 31 packages  b. 33 packages  c. 32 packages  d. 35 packages |
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| 40. b | 40. | Jay’s pay before taxes is $473.54. Her taxes take $114.79. What is her gross pay?  a. $514.36  b. $358.75  c. $299.47  d. $385.37 |
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| 41. d | 41. | Gerry bought a bike that would normally cast $280. If the bike was on a 30% discount, how much did Gerry save?  a. $96  b. $250  c. $280  d. $84 |
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| 42. b | 42. | To divide 70,697 by 100, how must you move the decimal point.  a. Move the decimal point two places to the left to get 70,697  b. Move the decimal point two places to the left to get 706.97  c. Move the decimal point two place to the right to get 706,970  d. Move the decimal point one place to the left to get 7069.7 |
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| 43. b | 43. | What is the percent increase from $4.25/hr. to $5.15/hr? Round to the nearest tenth of a percent.  a. 22.36%  b. 21.2%  c. 20.4%  d. 21.18% |
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| 44. c | 44. | If Nancy read 14 pages of a book a day, how long will it take her to read a 765 page book?  a. 53 days  b. 51 days  c. 55 days  d. 57 days |
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| 45. b | 45. | In one room, there are seventy-nine thousand nine hundred forty-one bricks. In another room there are fifty-six thousand two hundred twenty-eight bricks. How many bricks are in both rooms?  a. 98,378 bricks  b. 139,169 bricks  c. 133,475 bricks  d. 129,654 bricks |
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| 46. c | 46. | On lunch break at work, 37 workers each drank a pint of milk while 14 workers each drank a quart of milk. How many whole gallons are needed to supply the milk drank by the workers?  a. 8.125 gallons  b. 8 gallons  c. 9 gallons  d. 6.4 gallons |
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| 47. b | 47. | Carol has $35. She wants to buy as many apples as she can. The store has 69 apples, each costing $0.52. Can she buy all the apples I the store? If not, how many?  a. Yes, she can buy all the apples with $0.88 to spare  b. No, she will not have enough, she can only buy 67 apples  c. Yes, she has just enough to buy all of the apples  d. Yes, she can buy all the apples with $1.05 to spare |
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| 48. c | 48. | What is the difference between one thousand, one hundred nineteen dollars and forty-seven cents and twenty six dollars and eighty-six cents.  a. $998.31  b. $976.58  c. $1092.61  d. $1078.34 |
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| 49. c | 49. | Jack had 70 lollipops before his party. After the party he only had 28. What percentage of Jack’s lollipops were eaten at the party?  a. 90 percent  b. 80 percent  c. 60 percent  d. 40 percent |
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| 50. d | 50. | Sarah had a sheet pizza with 32 pieces. She took one quarter of the pizza to school for herself and her best friend. How many pieces did she take to school?  a. 4 pieces  b. 12 pieces  c. 7 pieces  d. 8 pieces |
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| 51. a | 51. | A commemorative book sold for $89 from the bookstore. The bookstore bought the book from the manufacturer for $63. What percent of profit did the bookstore receive for the book? Round to the nearest percent.  a. 29%  b. 39%  c. 41%  d. 36% |
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| 52. d | 52. | An elevator at the hospital has a maximum weight capacity of 1500 lbs. Nolan weighs 237 lbs.; Sally, 113 lbs.; Sandra, 127 lbs.; Max, 310 lbs.; Ella, 104 lbs.; Matthew, 177 lbs.; Fancy, 132 lbs.; Ronnie, 280 lbs.; and Terry, 187 lbs. Can they all fit on the elevator together? If not, who needs to be excluded to still come as close to the maximum weight limit as possible?  a. No, Max has to be excluded  b. No, Fancy has to be excluded  c. No, Terry has to be excluded  d. No, Ella has to be excluded |
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| 53. a | 53. | Fred bought 8 packages of note cards at $2.59 a package and 17 notebooks at $1.78 apiece. If there is a 6% sales tax, how much did he spend?  a. $54.04  b. $45.86  c. $51.97  d. $41.63 |
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| 54. a | 54. | Round 2.937,214 to the nearest ten thousand.  a. 2.940000  b. 2.937000  c. 2.937210  d. 2,937.200 |