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Arithmetic reasoning practice worksheets

Logic Arithmetic Practice Test 2 is a 16-question test that is designed for those looking for more practice in this important topic. Questions are word problems involving basic calculations. ASVAB Computational Logic Practice Test 2020 Sample Questions Answers (PDF). Free download for professional armed services battery efficiency test and armed test qualification (AFQT) online exam preparation. Computational Logic (AR) tests the ability to solve the basic computational problems one faces in everyday life. Word problems require one step and multiple steps to add, subtraction, multiplication, division, and choose the correct order of operations when there is more than one necessary step. Items include operations in full numbers, operations with reasonable numbers, ratio and proportion, in the shortest and percentage, and measurement. Computational logic is one of the factors that help to distinguish the understanding of mathematics as it evaluates logical thinking. The actual exam content in the AR test type number of asvab paper question and pencil 30-test items CAT-ASVAB 16-asvab account items logic test 2020 following asvab test arithmetic logic practice test is only for reference purpose, it's not actual test questions. You can download our free ASVAB Computational Logic Practice in PDF (for print and editing), this will help you make the best ASVAB test prep offline. You can also use these files (PDF, DOC) as worksheets. AsvaB Test Name Practice | AFQT Test Practice ASVAB stands for armed services professional battery efficiency AFQT stands for armed test sample type multi-choice test 30 (thirty) answers and interpretation available for printable and editable PDF available subject name computational logic (AR) purpose measurements ability to solve q1 keyword core problems. Lisa went to the grocery store and bought a pack of hot dogs for \$3.54, a pack of cakes for \$38.19, and a purse for \$35.14. If she receives a \$100 bill from the employee, what is change her? A. \$1.53 B. \$9.51 C. \$10.67 D. \$14.15 Answer: B This problem has two steps. First, you need to add the amount that has been spent. Then you need to subtract this amount from the \$100 bill. The total amount spent is \$90.49, so, subtracting that from \$100, the change is \$9.51. Q3. Cassidy answered 38 questions correctly in a test with 45 items. To the nearest percentage, what percentage answered correctly? A. 72% B. 78% C. 84% D. 89% Answer: C. In order to calculate the percentage, you need to divide the total number of items into the correctly answered number. In this case, do you 45 to 38 and get 0.8444. To change this to a percentage, move the decimal mark two places to the right and add the percentage tag to get 84.44%. Since the question asks for the nearest percentage, the answer will be 84%. Q4. Suzanne's test scores for social studies are 81, 76, 91, 73, and 79. What is her average score? Answer: A to find the average, add up numbers and divide by number of numbers. In this problem, add numbers to 400. Dividing that by 5 gives the correct score of 80 as an average. Q5- A box of chocolates containing 45 pieces. If 9 pieces of nuts in this, what percentage does the nuts? A. 20% B. 45% C. 79% D. 80% Answer: D This problem needs to be completed in two steps. First, you need to determine what percentage of chocolate and nuts, then subtract it from 100% to determine what percentage does not contain nuts. Therefore, dividing 9 by 45 results in the percentage containing nuts, which is 20%. Putting up this number of 100% gives the correct answer: 80% of chocolate does not contain nuts. In the united states, the government has been actively selected to support the government's work in the fight against the black and black women who have been the main cause of the problem. What is the ratio of females to all club members? A. 3/16 B. 1/15 C. 1/4 D. 1/8 Answer: D to find a ratio of one number to another, create a break to show the relationship. In this problem, there are 6 members of the club out of a total of 48. So the break that shows the relationship is 6/48. This fraction needs to be simplified to 1/8, the correct answer. You may see a ratio written as 1:8 in the ASVAB test. 1/88 and 1:8 means the same thing. The teacher devoted 192 pages of reading. If Vanessa starts reading on Monday and reads 48 pages every day, which day will you complete the task? A. Wednesday B. Thursday C. Friday D Saturday Answer: B If Vanessa contains 192 pages of reading and reads 48 pages every day, Monday read 48 pages, Tuesday read 2 (48) or 96 pages, Wednesday has ready 3 (48) or 144 pages, and on Thursday I read 4 (48) or 192 pages. Thursday is the right answer. Another way to do this is to divide 192 by 48 to get 4. If Monday is 1, Tuesday is 2, Wednesday is 3, and Thursday is 4. Again, Thursday is the right answer. Q8- Samuel is keeping the coins in a jar so he can buy a program. He saved 94 nickels, 44 quarters, and 112 cents. If he reaches the jar to choose one currency at random, what is the probability that he will choose a dime? A. 1/2 B. 2/3 C. 56/125 D. 112/138 Answer: C probability = number of favorable results/ number of possible results. In this problem, the favorable result would be a choice of a dime. There are 112 cents or favorable results. The number of possible results is the sum of all coins, or $94 + 44 + 112 = 250$. So probability = $112/250$ simplified, that is $56/125$ Q9. Renee deposits \$4000 into a savings account that earns 4% simple interest per year. How much interest will you gain in three years? A. \$112 B. \$350 C. \$380 D. \$480 Answer: D Simple Interest Problems Use $I = prt$, where I is the amount of interest, p is the principal or amount saved or invested, y is the interest rate, and t is the amount of time that the interest accumulates. In this problem, you are asked to find interest, given that the principal of the debt is \$4000, the interest rate is 4%, and the amount of time is 3 years. To replace this information in the formula, you get $I = 4,000 (0.04) (3) = \$480$ of Q10 interest. Leah flies 5,200 miles in 11 hours. A. 472.73 mph b. 499.17 mph C. 512.33 mph D. 587.43 mph Q11. The Booster Club Kent High School has 250 members. It hopes that in 90 days its membership will be 376 by launching an online membership campaign. On average, how many new members need to register every day to reach this goal? A. 1 B. 1.4 C. 1.5 D. 2.2 Answer: B Club Booster has 250 members and wants to reach 376 members in 90 days. Putting up 250 of 376, the club needs to attract 126 new members. To do this in 90 days, the club must attract $126 \div 90 =$ an average of 1.4 members each day Q12. Max has a rectangular garden that is 3 feet by 7 feet. If 2 ounces of fertilizer per square foot of the garden is needed to thrive, how many ounces should you use? A. 21 oz B. 42 oz C. 44 oz D. 56 oz Answer: B Here you need to calculate the number of square feet in the garden and then determine how many ounces of fertilizer is needed. A rectangular garden area is calculated by multiplying the length \times width. Even in this problem, the area is 21 square feet. If you need 2 ounces of fertilizer per square foot, then you need to multiply 2 in number of square feet. $21 \times 2 = 42$ oz Q13. Hold a local electronics store 20% of the sale of all its products. Marla chooses 2 A.S. hard drives at \$16.99 each. What is the 20% rate after the 20% discount? A - \$15.99 for \$22.50 C. \$25.78 D. \$27.18 Answer: D calculation cost two tablets: $\$16.99 \times 2 = \33.98 reduce this amount by 20% by multiplying the total cost at 0.20: $\$0.20 \times \$33.98 = \$6.80$ subtracted \$6.80 from the original cost: $\$33.98 - \$6.80 = \$27.18$ Q14. The Berkeley store runs a private back-to-school shoe store in September. A pair of shoes costs \$67.50. In October, the price rises to \$87.75. What is the percentage increase in the price in October? A. 15% B. 20% C. 24% D. 30% Answer: D Using the following formula: Change Ratio = (Change Amount/ Starting Point) Q15. Two numbers together plus 300. One number is twice the size of the other. What are the two numbers? A. 25; 50 B 50; 100 C. 75; 150 D. 100; 200 Answer: D set this as an equation. The number plus 2 \times this number is $300 \times + 2x = 300$ solution for x. $3x = 300 \times = 100$ so one number is 100 and the other is twice that, or 200. Question 16- The 1000 Hugo is to make the picture frame for his family's image. The picture is 8 inches by 10 inches. If the wood for the frame costs 50 cents per inch, how much wood will The cost of the frame? A. \$9.00 B. \$12.00 C. \$15.00 D. \$18.00 Answer: D to answer this question, you need to know the circumference of the frame. For the rectangle, the perimeter is $2l + 2w$. If $w = 8$ and $l = 10$, then circumference = $2 (8) 2 (10) = 36$ inches. At \$0.50 a inch, double $36 \times \$0.50$ for the price of wood. $36 \times \$0.50 = \18.00 /su spoiler Q17. The distance through the circular mouth of a volcano passing through its center is 75 yards. What's the distance around his mouth? A. 145.5 yd B. 215.5 yd C. 235.5 yd. 315.5 yd Answer: C. To find the circumference of the circle, use formula $C = 2r$. In this problem, you are given a diameter. You need to use the radius, which is $1/2$ d, or 37.5 yards. Replace the information in the formula. $C = 2 \Phi (37.5) C = 2 (3.14) (37.5) = 235.5$ yd note that you can skip a step if you remember formula $C = \Phi d$. Replace the information you have. $C = \Pi(75) = 235.5$ yd Q18. Sue spent a third of her life in Kansas. Answer: In this problem, you need to find $1/3$ of 39. Dividing 39 by 3 gives you 13. Question 19- The 1000 Brian shoots hoops with Dave, who is two years younger than Brian. If Brian is 17, how old is Dave? Answer: Create an equation to solve this problem. Dave = Brian - 2. You were told that Brian is 17. Replace that information in the formula. Dave = $17 - 2$ Dave = 15 Q20. Al has three times as much money as Bill. Bill has twice as much money as Charlie. A. \$11.78 B. \$19.79 C. \$29.24 D. \$35.34 Answer: D create equations to solve this problem. Al = 3 (bill) bill = 2 (Charlie) Charlie = \$5.89 solution for Al. Replace what you know in formulas. Bill = 2 (\$5.89) bill = \$11.78 to find Al, replace what you knew about a bill. Al = 3 (\$11.78) Al = \$35.34 Q21. The car owned by Marissa gets an average of 16 miles per gallon of gas on the highway. If they had recently taken a 1344-mile journey, how many gallons of gas did they use? A. 34 gallonb. 57 gallons C. 78 gallon D. 84 gallon answer: D in this problem, you need to calculate the number of units 16 mpg there at 1,344. Do this by dividing 1,344 by 16. $1 \div 16$ $344 = 84$ gallons Q22. The rectangular pool is 6 feet deep, 28 feet long and 12 feet wide. What is the size of the pool? A. 1,655 ft³ B. 1,799 ft³ C. 2,016 ft³ D. 2,546 ft³ Answer: C to solve this problem, use formula $V = lwh$. I've been given dimensions $l = 28$ feet, $w = 12$ feet, and $h = 6$ feet. Replace that information in the formula. The government's support for the government's work on the Road To The Future is a very good way to help the people of the country. Josh wants to put a fence around his rectangular garden. The park is 10 metres by 15 metres. How much should he buy a duel? A. 30 ft B. 35 ft C. 42 ft D. 47 feet Answer: C You need to calculate the perimeter of the garden. The perimeter is the sum of all sides, or use the Formula $P = 2l + 2w$. dimensions are given 6 feet and 15 feet. Replace that information in the formula. $P = 2(6) + 2(15) = 42$ ft Q24. In the last election, Joe got 32% of the vote, Samantha 14% of the votes, Sally got 42% of the vote, and Cal 12% of the votes. If 5,000 votes were cast, how many votes did Samantha get? A. 300 B. 450 C. 535 D. 700 Answer: D to calculate 14% of 5000, multiply 5000 at 0.14. $5,000 (0.14) = 700$ votes Q25. A circular pond of 3.5 meters deep 9 meters. What is the volume? A. 450.2 cubic meter B. 575.9 m³ C. 890.2 m³ D. 974.4 m³ Answer: C to calculate cylinder size, use Formula $V = r^2h$. In this problem, the radius is 9 m. The height is given 3.5 m. Replace that information in the formula. $V = (3.14) (9)^2 (3.5) V = (3.14) (81) (3.5) V = 890.19$ or 890.2 cubic meters Q26. The diameter of the planet is 8000 miles. What is his surroundings? A. 19,412 miles B. 20,889 miles C. 25,120 miles D. 28,475 miles Answer: C use formula $C = 2r$ or $C = d$. You are given a diameter of 8,000 miles replaced in the formula. $C = (8,000) C = 3.14 (8,000) C = 25,120$ miles Q27. Will has \$4355.19 in his account. He writes checks for \$1,204.90 and \$890.99. How much more is left in Will's account? A. \$1,189.65 b. \$2,259.30 c. \$2,867.30 dala dala\$2,989.50: B to calculate the answer to this question, add the amount of cheques and subtract from the current amount in the verification account. $\$4,355.19 - (\$1,204.90 + \$890.99) = \$2,259.30$ Q28. The club raised \$585.00. If 75% of that comes from membership dues, how much money comes from the dues? A. \$413.15 B. \$438.75 C. \$465.75 D. \$525.05 Answer: B hit \$585.00 at \$0.75 for \$438.75. Question 29-1000 Danny buys a computer at \$750.00 originally, software software originally priced at \$398.75, a printer at \$149.98 originally, and a case of paper originally priced at \$24.99. All items are on sale for 20% off. How much will Danny save for the sale? A. \$124.94 B. \$196.74 C. \$236.24 D. \$264.74 Answer: D calculate the total cost of items and then multiply by 20% to determine how much Danny will save. $\$750 + \$398.75 + \$149.98 + \$24.99 = \$1,323.72$ $\$1,323.72 \times 0.20 = \264.74 savings from selling Q30. A ladder is placed against a building. If the ladder makes a 55 degree angle with the ground, what is the angle gauge that makes a ladder with the building? A. 35° B. 40° C. 55° D. 90° Answer: A in this problem, you know two of the three angles, one measuring 55 degrees and the other measuring 90 degrees. Together these two angles measure 145 degrees. Since a total triangle of 180 degrees, the third corner should measure $180^\circ - 145^\circ - 90^\circ = 35^\circ$ download ASVAB Computational Logic Test Practice (PDF) document type download free editable link Doc File free printable PDF file file

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