



2015 amc 10b

Copyright © 2020 Art for Problem solving Copyright © 2020 Problem Solving Art 2015 AMC 10B (key to reply)Print version: Wiki | AoPS Resources • PDF Instructions This is a 25-question, multiple-answer test. Each question is followed by answers marked with A, B, C, D and E. Only one of these is true. You will get 6 points for each correct answer, 2.5 points for each problem left unanswered if the year is before 2006, 1.5 points for each problem left unanswered if the year is after 2006, and 0 points for each incorrect answer. No aids other than scratch, millimeter paper, linear, compass, slag and erasers (and calculators accepted for use of sat are allowed if before 2006 there are no problems on the test will require the use of a calculator). The numbers do not have to be drawn in scale. You will have 75 minutes of working hours to complete the test. 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 8 • 10 • 11 • 12 • 13 • 14 • 15 • 16 • 17 • 18 • 19 • 21 • 22 • 23 • 24 • 25 What is the value of ? Solution Problem 2 Marie does three equally time-consuming tasks in a row without interrupting. She started the first task at 2:40 p.m. When will the third task be completed? Solution Issue 3 Isaac has saved one integer twice and another integer three times. The sum of the five numbers is , and one of the figures is . What's the other trick? Solution 4 Four siblings ordered a very large pizza. Alex ate, Beth and Cyril ate pizza. Dan took the leftovers. What is the sequence of the siblings in descending order of the portion of pizza they consume? Solve Problem 5 David, Hikmet, Jack, Martha, Rand and Todd have been in competition with other people. Rand finished ahead of Hikmet. Jack finished behind Todd. Todd finished behind Rand. Martha's done on the spot. Who ended up on the scene? Solution Problem 6 Marley practices exactly one sport every day of the week. She works three days a week, but never on two consecutive days. On Monday, she played basketball and two days later golf. She swims and plays tennis, but never plays tennis the day after running or swimming. What day of the week is Marley swimming? Solution Issue 7 Consider the operation minus the reciprocal one defined by . What is it? Solution Problem 8 The letter F shown below is rotated half a rotation around the origin. What is the final image? Solution Problem 9 The shady area below is called the shark fin falcata, a figure studied by Leonardo da Vinci. It is limited by the part of the radius circle and the centre located in the first and the segment on the to. What is the area of the shark's fine falcon? Solution Problem 10 What is the figure of the character and units of the work of all odd negative integers, strictly greater than? Solution Problem 11 Among positive integers is a basic number, one is selected randomly. What is the probability that the selected number is the first number? Solution Issue 12 For how many integers is the point inside or within a radius centered in ? Solution Problem 13 The line forms a triangle with the coordinate axes. What is the sum of the lengths of the roots of the equation? Solution Problem 15 Hamlet city has people for every horse, sheep for every cow and ducks for each person. What of the following cannot be the total number of people, horses, sheep, cows and ducks in Hamlet? Solution Issue 16 AI, Bill and Cal will be assigned to any integer from to , including, without two of them getting the same number. What's the probability that the al number is an integer, a multiple of Bill's number, and a number will be an integer, a multiple of Cal? Solution Problem 17 When the centers of the faces of the right rectangular prism shown below are joined to create octaedle, what is the volume of octaedle? Solution Problem 18 Johan has fair coins. He throws all the coins. Every coin that lands on the tails is thrown away again. The coins, which land in queues on the second mtemetz, rotate for the third time. What is the expected number of coins that are now chapters? Solution issue 19 B and . squares and are built outside the triangle. Her dots lie in a circle. What is the perimeter of the triangle? Solution Problem 20 Erin ant starts from a given angle of a cube and crawls exactly the edges in such a way that it visits each corner just once and then discovers that it can not return to the edge of its starting point. How many paths are there that meet these conditions? Solution Problem 21 Cozy cat and Dash dog get on a staircase with a certain number of steps. However, instead of climbing the steps one by one, both cozy and Dash jump. Cozy goes two steps up with each jump (although if necessary, he will simply jump the last step). Dash goes five steps up with each jump (though if necessary, it will just jump the last steps if there are less than 5 steps left). Suppose dash takes 19 fewer jumps than Cozy to get to the staircase. Let's indicate the sum of all possible steps numbers that this staircase may have. What is the sum of the figures of ? Solution Problem 22 In the figure shown below is a simple pentagon and . What is it? Solution Problem 23 Let it be a positive integer greater than 4 the decimal image of the ending in zeros. Let's denote the sum of the four least possible values of . What is the sum of the figures of ? Solution 24 Aaron ant walks along the coordinate plane according to the following rules. It starts from the beginning of the east and walk down a block to an undoubted point - he does that. Otherwise, he will go one block to reach. Thus, the sequence of points continues, and so on in counterclockwise spiral pattern. What is it? Solution Issue 25 Rectangular box measures where and integers are and . The volume and area of the box are digitally equal. How many triple numbers are possible? Decision See also the Chairman of the Committee: Eric Wu Email: info@aylus.org the Mathematical Committee coordinates all activities related to the current development of mathematical and secondary schools. AMC Instruction Videos to help students prepare for the AMC math contest. Mathlets Eric Wu and Hill Inn have released a series of video solving problems with AMC. The video can be found here! Copyright © 2020 Art for Problem Solving Art 2015 AMC 10B (key to reply)Print version: Wiki | AoPS Resources • PDF Instructions This is a 25-question, multiple-answer test. Each question is followed by answers marked with A, B, C, D and E. Only one of these is true. You will get 6 points for each correct answer, 2.5 points for each problem left unanswered if the year is after 2006, and 0 points for each incorrect answer. 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