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Amc 12b answers 2020

Yesterday, thousands of middle school and high school students participated in this year's AMC 10B and 12B Competition (including some students at Areteem Headquarters as seen below). Students taking AMC 10B and 12B tests at Areteem headquarters on February 5, 2020. The problems can now be discussed! See below for answer keys for both the 2020 AMC 10B and AMC 12B questions as well as the concepts tested on each issue. AMC 10B Response arithmetic and negative speech geometry: cubes and geometry volumes and number theory: primes and angles in triangles combinatorics: permutations with repeated object number theory: LCMs and perfect geometry squares: right triangles and number theory areas: diofanthines equations geometry: cones and volumes, lateral surfaces combinatoric: probability speech theory: place values and arithmetic geometry: coordinates and geometry patterns: areas, hexagons, and circles combinatorics: patterns and multiples of combinatorics : case and logic combinatorics: probability and repetition number theory: computation and modular arithmetic geometry: volumes, prisms, cylinders and geometry spheres: areas, squares, lemmings number theory: residues, divisibility, and factoring geometry: composing number theory transformations: floor function and equations combinatorics: permutations of products, cases, and patterns AMC 12B Responses arithmetic and square roots algebra : arithmetic and factor geometrining and number theory: prime sand sarcomhea and angles in the triangles algebra : arithmetic and factor geometrically : key figures and equations number theory: factoring and simplifying geometry: slopes, angles, and trigonometry number theory: ditophannic equations geometry: cones and volumes, lateral surfaces geometry: squares, inscribed circles, and power of a point geometry: areas, hexagons, and geometry circles: circles, chords, and power of a point algebra: logaritmer and square roots combinatorics : case and logic combinatorics: probability and repetition algebra: polynomials, roots, and complex number geometry : areas, squares, triangles of geometry triangles: composing transformations combinatorics: probability, coloring cubes number theory: floor function and algebra equations: maximums, AM-GM inequality algebra: complex number and polar coordinates combinatorics: permutations of products, cases and patterns of combinatorics: geometric probability, trigonometric functions and maximum In a total of 12 queries appeared on both AMC 10B and AMC 12B. They are listed below: AMC 10BAMC 12B334498109141111611417151816211823192421252 4 Starting prep for AIME? Join one of Areteem's AIME Prep courses to prepare for next month's AIME. Click here for more information and registration. For answers to this year's AMC 10A and 12A exams, click here. 2020 AMC 10B and 12B problems can be found on the ZIML website along with previous exams. Click here for AMC 10 and here for AMC AMC 10 and 12 exams are administered by the Mathematical Association of America (MAA). For general information about AMC 10 and 12, click here. Copyright © 2020 Art of Problem Solving 2020 AMC 12B (Answer Key)Printable Version: Wiki | AoPS Resources • PDF Instructions This is a 25-question, multiple choice test. Each question is followed by answers marked A, B, C, D and E. Only one of these is correct. You 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 are permitted except rope paper, graph paper, ruler, compass, protractor and eraser and eraser approved for use on the pre-2006 test. No problems on the test will require the use of a calculator. Shapes are not necessarily drawn to scale. You will have 75 minutes of working time to complete the test. 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 9 • 10 • 11 • 12 • 13 • 14 • 15 • 16 • 17 • 18 • 19 • 20 • 21 • 22 • 23 • 24 • 25 What is the value in the simplest form of the following expression? Workaround Problem 2 What is the value of the following expression? Solution Problem 3 The ratio of to is , the ratio of to is , and the ratio of to is . What is the relationship between and ? Solution Problem 4 The acute angles of a right triangle are and , each both and are primes. What is the minimum value of ? Solution Problem 5 Teams and plays in a basketball league where each game results in one win for one team and a loss for the other team. The team has won this games and the team has won their games. In addition, the team has won more games and lost more games than the team How many games has the team played? Solution Problem 6 For all integer value of is always which of the following? Solution Problem 7 Two nonhorizontal, nonvertical lines in -coordinate the plane intersect to form an angle. A line has a slope equal to times the slope of the other line. What is the maximum value of the product of the slopes of the two lines? Solution Problem 8 How many ordered pairs of integers satisfy the equation Solution Problem 9 A three-quarter sector of a circle of radius inches along with its interior can be rolled up to form the lateral surface of a right circular cone by taping together along the two radii shown. What is the volume of the cone in cubic inches? Solution Problem 10 In unit squares, the inscribed circle cuts at and intersects at a point different from What is Solution Problem 11 As shown in the figure below, six semicircles lie in the interior of a regular side-length hexagon so that the diameters of the semicircles coincide with the sides of the hexagon. What is the area of the shaded region—inside the hexagon but outside of the semicircles? Workaround Problem 12 Leave to be a diameter in a circle of the radius Leave to be a chord in the circle that cuts at a point so that and What is Solution Problem 13 Which of the following is the value of Solution Problem 14 Bela and Jenn play the following games at the closed range for the actual number line, where is a fixed integer greater than . They take turns playing, with Bela going first. At his first turn, Bela selects any real number in the range. Next, select the player whose turn it is a real number that is more than one unit away from all numbers previously selected by either player. A player who cannot select such a number loses. Using optimal strategy, which player will win the game? Solution Problem 15 There are 10 people who are equally divided around a circle. Each person knows exactly 3 of the other 9 people: the 2 people standing next to her or him, as well as the person directly across the circle. How many ways are there for the 10 people to be divided into 5 pairs so that the members of each couple know each other? Solution Problem 16 An urna contains a red ball and a blue ball. A box of extra red and blue balls is nearby. George performs the following operation four times: he pulls a ball from the urn at random and then takes a ball of the same color from the box and returns these two matching balls to the urn. After the four iterations, the urn contains six balls. What is the probability that the urn contains three balls of each color? Workaround Problem 17 How many polynomials of the form , where , and are real numbers, have the property that whenever is a root, so is ? (Note that) Workaround Problem 18 Squared, pointing and lying on and , respectively, so that Points and lie on and , respectively, and points and lie on so that and . See the figure below. Triangle, quad, square, and the pentagon each has area What is? Solution Problem 19 Square in the coordinate plane has vertices on the points and consider the following four transformations: a rotation of counterclockwise around the origin; A rotation of clockwise around the origin; a reflection on the axis; and a reflection on the axis. Each of these conversions maps the boxes on itself, but the positions of the marked vertices will change. For example, apply and then would send vertex on and would send vertex on to itself. How many sequences of transformations selected from will send all the tagged vertices back to their original positions? (For example, a sequence of transformations is that will send corners back to their original positions.) Solution Problem 20 Two different cubes of the same size should be painted, with the color of each face selected independently and randomly to be either black or white. What is the probability that the cubes after they are painted can be rotated to identical in appearance? Solution Problem 21 How many positive integers satisfy(Recall which is the largest integer does not exceed .) Workaround Problem 22 What is the maximum value for actuals on Solution Problem 23 How many integers are there such that at any time complex numbers are such that when the numbers are equally distributed on the unit circle in the complex plane? Solution Problem 24 Let denote the number of ways of writing the positive integer as a productthere , the integers are strictly greater than , and the order in which the factors are listed issues (that is, two representations that differ only in the order of the factors that count as distinct). For example, the number can be written as , and , so . What is ? Solution Problem 25 For each real number with , let numbers and be selected independently at random from the intervals and , respectively, and let alone the probability that What is the highest value of Solution See also The problems on this page are copyrighted by the Mathematical Association of America's American Mathematics Competitions. Competitions.

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