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Maths olympiad practice questions for class 9

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If the numerator is decreased by 2 and the denominator is increased by 1, then the denominator becomes eight times the numerator, then find the fraction: Q.2 The circum-centre of the triangle formed by points O(0, 0), A(6, 0) and B(0, 6) is _____. Q.3 An urn contains 6 blue and 'P' green balls. If the probability of drawing a green ball is double that of drawing a blue ball, then 'P' is equal to: Q.4 In the following figure, two isosceles right triangles, DEF and HGI are on the same base DH and DH is parallel to FI. If DE = GH = 9 cm and DH = 20 cm, then the area of the quadrilateral FEGI is _____. Q.5 Which of the following is/are correct?I. If two sides of a triangle are unequal, the larger side has the greater angle opposite to it.II. The sum of any two sides of a triangle is greater than its third side.III. If all the line segments that can be drawn to a given line from an external point, the perpendicular line segment is the shortest.IV. If all the three sides of a triangle are equal, it is called a scalene triangle. Q.6 A bag contains 5 red balls, 6 yellow balls, and 3 green balls. If two balls are picked at random, what is the probability that either both are red or both are green in colour? Q.7 If (4 + 3√5)/(4 - 3√5) = a + b√5, then (a, b) = _____ Q.8 It is known that if x + y = 10, then x + y + z = 10 + z. The Euclid's axiom that illustrates this statement is: Q.9 1/2 (a + b + c) { (a - b)2 + (b - c)2 + (c - a)2} = ? c) a3 + b3 + c3 + 3abc(a + b + c) Q.10 The area of a rectangular field is 460 m2. If the length is 15% more than the breadth, then what is the breadth of the field? Your Score: 0/10 The book 'International Mathematics Olympiad' has been divided into five sections namely Mathematics,Logical Reasoning,Achievers section,Subjective section,and Model Papers.In every chapter,the theory has been explained through solved examples,illustrations and diagrams wherever required.To enhance the problem solving skills of candidates Multiple Choice Questions (MCQs) with detailed solutions are provided in the end of each chapter.The questions in the Achievers' section are set to evaluate the mathematical skills of brilliant students while the subjective section includes questions of descriptive nature.Two Model Papers have been included for practice purpose.A CD containing Study Chart for systematic preparation,Tips & Tricks to crack Maths Olympiad,Pattern of exam,and links of Previous Years Papers is accompanied with this book.#v&spublishers Select Your Role Student Teacher Parent Principal Trustee/Owner Please select the Role. IMO Sample Papers For Class 9 International Mathematics Olympiad or IMO is a premier mathematics Olympiad conducted by Science Olympiad Foundation for students to build a foundation for mathematics among them for higher classes. IMO helps in improving the student's solving abilities and analytical thinking by challenging them with questions of high order thinking. This prepares them for future competitive exams. Class 9 IMO Sample Papers are available on SOF Olympiad Trainer in the form of PDFs which can be downloaded by the students to help them prepare for the exam holistically. To download them click here. SOF Olympiad Trainer aims to deliver each and every relevant study material that helps the student ace the IMO exam by providing Class 9 IMO Sample Papers. These Sample Papers expose the students to a variety of questions across many difficulty levels that make them comfortable with the subject and the concepts. Benefits of the IMO Sample Papers: Students get an understanding of the main question paper. The Sample Paper gives an inkling of the sections of the main exam. It gives the basic idea of the type of questions asked in each section. Students get an idea on what to expect from the question paper and the difficulty level. IMO class 9 consists of a total of 50 questions of a total of 60 marks divided into 4 sections as explained below: Logical Reasoning – This section judges the logical and mental ability among students and tests their analytical and general intellectual skills through Verbal and Non-Verbal Reasoning. Mathematical Reasoning - This section tests the understanding of mathematical concepts and calculative powers of the students. The questions of this section can be calculative and time consuming. Everyday Mathematics – the section challenges the candidate's thinking ability with questions of amalgamation of everyday situations and general management. Achiever's section – This section tests the students with questions from a variety of different concepts. This section makes a lot of difference in the rankings, as it contains 5 questions of more weightage and advanced level that requires higher order thinking skills. The syllabus for Class 9 IMO is based on topics like numbers, mathematical operations, geometry, measurements, data interpretation, probability, etc. To view full syllabus, click here.

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