

# leb Mathematics Exemplar 2014 Grade12

## Memo

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1 real number euclid s division lemma fundamental theorem of arithmetic  
 statements after reviewing work done earlier and after illustrating and motivating  
 through examples proofs of irrationality of decimal representation of rational  
 numbers in terms of terminating non terminating recurring decimals unit ii  
 algebra 1 polynomials zeros of a polynomial relationship between zeros and  
 coefficients of quadratic polynomials statement and simple problems on division  
 algorithm for polynomials with real coefficients 2 pair of linear equations in two  
 variables pair of linear equations in two variables and graphical method of their  
 solution consistency inconsistency algebraic conditions for number of solutions  
 solution of a pair of linear equations in two variables algebraically by substitution  
 by elimination and by cross multiplication method simple situational problems  
 simple problems on equation reducible to linear equations 3 quadratic equations  
 standard form of a quadratic equation  $ax^2 + bx + c = 0$   $a \neq 0$  solutions of quadratic  
 equations only real roots by factorization by completing the square and by using  
 quadratic formula relationship between discriminate and nature of roots  
 situational problems based on quadratic equations related to day to day activities  
 to be incorporated 4 arithmetic progressions motivation for studying arithmetic  
 progression derivation of the  $n$ th term and sum of the first  $n$  terms of a p their  
 application in solving daily life problems unit iii coordinate geometry 1 lines in two  
 dimensions review concepts of coordinate geometry graphs of linear equations  
 distance formula section formula internal division area of a triangle unit iv  
 geometry 1 triangles definition examples counter examples of similar triangles 1  
 prove if a line is drawn parallel to one side of a triangle to intersect the other two

sides in distinct points the other two sides are divided in the same ratio 2 motivate if a line divides two sides of a triangle in the same ratio the line is parallel to the third side 3 motivate if in two triangles the corresponding angles are equal their corresponding sides are proportional and the triangles are similar 4 motivate if the corresponding sides of two triangles are proportional their corresponding angles are equal and two triangles are similar 5 motivate if one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional the two triangles are similar 6 motivate if a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse the triangles on each side of the perpendicular are similar to the whole triangle and to each other 7 prove the ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides 8 prove in a right triangle the square on the hypotenuse is equal to the sum of the squares on the other two sides 9 prove in a triangle if the square on one side is equal to sum of the squares on the other two sides the angle opposite to the first side is a right angle 2 circles tangent to a circle at point of contact 1 prove the tangent at any point of a circle is perpendicular to the radius through the point of contact 2 prove the lengths of tangents drawn from an external point to a circle are equal 3 constructions 1 division of a line segment in a given ratio internally 2 tangents to a circle from a point outside it 3 construction of a triangle similar to a given triangle unit v trigonometry 1 introduction of trigonometry trigonometric ratios of an acute angle of a right angled triangle proof of their existence well defined motivate the ratios whichever are defined at 0 and 90 values with proofs of the trigonometric ratios of  $30^\circ$   $45^\circ$  and  $60^\circ$  relationship between the ratios 2 trigonometric identities proof and applications of the identity  $\sin^2 A + \cos^2 A = 1$  only simple identities to be given trigonometric ratios of complementary angles 3 heights and distances angle of elevation angle of depression simple problems on heights and distances problems should not involve more than two right triangles angles of elevation depression should be only  $30^\circ$   $45^\circ$   $60^\circ$  unit vi mensuration 1 areas related to circles motivate the area of a circle area of sectors and segments of a circle problems based on area and perimeter circumference of the above said plane figures in calculating area of segment of a circle problems should be restricted to central angle of  $60^\circ$   $90^\circ$  and  $120^\circ$  only plane figures involving triangles simple quadrilaterals and circle should be taken 2 surface areas and volumes 1 surface areas and volumes of combination of any two of the following cubes cuboids spheres hemispheres and right circular cylinders cones frustum of a cone 2 problems involving converting one type of metallic solid into another and other mixed problems problems with combination of not more than two different solids be taken unit vii statistics and probability 1 statistics mean median and mode of grouped data bimodal situation to be avoided cumulative frequency graph 2 probability classical definition of probability simple problems on single events not

learning mathematics class 9 has been written by mr m l aggarwal former head of p g department of mathematics d a v college jalandhar in accordance with the latest term wise syllabus and guidelines issued by the cbse on comprehensive and continuous evaluation the subject matter contained in this book has been explained in a simple language and includes many examples from real life situations carefully selected examples consist of detailed step by step solutions so that students get prepared to tackle all the problems given in the exercises questions in the form of fill in the blanks true false statements and multiple choice questions have been given under the heading mental maths in addition to normal questions some higher order thinking skills hots questions have been given to enhance the analytical thinking of the students a chapter test has been put in the end of each chapter which serves as the brief revision of the entire chapter term wise model question papers for formative and summative assessments have been given at proper places

olympiads champs class 10 mathematics is an attempt to guide and prepare students for national level olympiad examinations the book will not only prepare the students for these examinations but will also help in developing a good aptitude and problem solving skills the book covers the scholastic part mathematics which provides a quick concept review to the students each chapter of the book provides two levels of exercises based on the level of difficulty the exercise 1 contains simple mcqs and exercise 2 contains exhaustive varieties of questions i e matching based mcqs statement based mcqs multiple answer based mcqs passage based mcqs graph based mcqs etc the detailed solutions to the mcq s are provided at the end of each chapter at the end of the book there is practice question bank containing large varieties of important questions covering all the topics of the syllabus with detailed solutions 5 online mock test papers based on different national level olympiad exams are provided which help to the students to recall their knowledge this book will really prove to be an asset for class 10 students as they hardly find any material which can help them in not only mastering the olympiads but also help them in building a strong foundation

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solutions to the mcq s are provided at the end of each chapter at the end of the book there is practice question bank containing large verities of important questions covering all the topics of the syllabus with detailed solutions 5 online mock test papers based on different national level olympiad exams are provided which help to the students to recall their knowledge this book will really prove to be an asset for class 9 students as they hardly find any material which can help them in not only mastering the olympiads but also help them in building a strong foundation

this study contributes to the debate over the relationship between science and religion by examining sir isaac newton s construal of space and time in his principia mathematica and other important works this book should appeal to scholars interested in the philosophy of religion theology and the history of science thought and writings of sir isaac newton attempting to illustrate his portrayal of both of these as sacred not merely material entities after analyzing newton s principal texts the author proceeds to consider his understandings in relation to the philosophical and theological work of american critical conservative paul elmer more demonstrating their agreement concerning the havoc wrought in the modern world by the illegitimate extensions of hypothetical science into philosophies of life and society finally the book considers the implications of viewing space and time with newton and others in a sacred manner and the resulting limitations on human knowledge this book offers an interesting contribution to current debates concerning the relationship between science and religion and will appeal to those who study the philosophy of religion theology and the history of science

this book constitutes the refereed proceedings of the second international conference on case based reasoning iccbr 97 held in providence ri usa in july 1997 the volume presents 39 revised full scientific papers selected from a total of 102 submissions also included are 20 revised application papers among the topics covered are representation and formalization indexing and retrieval adaptation learning integrated approaches creative reasoning cbr and uncertainty this collection of papers is a comprehensive documentation of the state of the art in cbr research and development

papers presented to j e littlewood on his 80th birthday issued as 3d ser v 14 a 1965

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