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Maths for competitive exams pdf in english

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Mathematics is one of the most feared subjects in the history of the modern educational system. It is daunting and confusing for many students. But there is nowhere to escape from this subject as it is featured in many competitive examinations that are unavoidable for successful career building. Testbook has committed itself to make the process of learning mathematics easier for our students. We have a bunch of resources for competitive exam preparation as well as many blog articles on various topics of Maths for Competitive Exams. With these, the candidates will understand the basics of Mathematics Topics better and hence score better in these competitive examinations. With this initiative of Testbook Learn, the students will be able to get PDFs for various topics of Mathematics such as Determinants, Statistics, Sets, Linear Inequalities, Relations and Functions, Vector Algebra etcetera. So Target the basics of Maths for Competitive Exams

List of Maths Topics Here are the downloadable links for all the Mathematics Articles by Testbook Learn. These will be helpful for the candidates in understanding the concepts better and apply them to Maths for Competitive Exams. Find these articles in the table below:

Topic Explanation

CirclesThe basics of the circle, general equation of a circle, concentric circles, equation of a tangent and more.

LinesThe general equation of a line, slope, angle to the family of lines.

TrianglesTypes of triangles, formulas and theorems, Heron's formula, Pythagoras theorem, the centroid of triangles, and more.

ProbabilityKey terms of concepts of Probability, definition, formulae, theorems and distributions, mean, median, mode and more.

TrigonometryRatios, trigonometric identities, and theories. Relationship between degree and radian etc.

Permutations and CombinationsRepetition, principles of addition, multiplication, circular permutation, the relationship between permutation and combination and more.

Binomial TheoremBinomial expression, special terms, formulae and more.

ParabolaEllipse and Hyperbola

Conic section, focus, directrix, eccentricity, general equation of conic second degree, etc.

Three Dimensional GeometryBasic terms and terminologies, formulae, Lines and types, skew lines, coplanar lines, Planes, etcetera.

Number SystemNumber System can be understood as a way of arranging, classifying, writing and expressing numbers in different forms and vice-versa.

Sequences and SeriesSequences and series: an overview of arithmetic progression, geometric progression, harmonic progression and special series.

MatricesA matrix is depicted as an array of numbers that are arranged in rows and columns.

DeterminantsProperties of determinants, minors and co-factors, calculations etc.

StatisticsClassification of data in statistics, frequency distribution in statistics, measures of Central tendencies in stats, mean, median, mode of data, distribution, variance and standard deviation, correlation and more.

SetsAn outline of the set theory, types of sets, representation of sets, operation on sets, the difference between two sets, laws of algebra on sets, interpretation of word problems etc.

Linear InequalitiesTheory of inequality, linear inequality in one variable, its rules, graphical representation and explanation, linear inequality in two variables, solution, key terms and more.

Relations and FunctionsProperties of relations and functions, domain, range, co-domain, inverse, types, explanation, Cartesian product of two sets and more.

Vector AlgebraAny physical quantity which possesses both magnitude and direction is said to be a vector quantity.

Complex NumbersA complete outline of complex numbers, operation and identities, fundamentals, equality of complex numbers, algebraic operations on complex numbers, Euler's form, De-Moivre's theorem and more.

Limit and ContinuityMajor theories, properties of limits and continuity, discontinuity condition, existence and more.

Evaluation of LimitsA limit is a value that a function approaches the output for a provided set of input values. A function is said to be continuous at a selective point of there is no separation on the graph.

Solution of Differential EquationsMethods to solve first-order, first-degree differential equations. Variable separable method, homogeneous differential equation, linear differential equation, explanation, formulae, tips and more.

Differential CalculusRules of differential calculus, standards formulae regarding algebraic, exponential, trigonometric and logarithmic functions. Applications, FAQs etc.

Applications of DerivativesThe rate of change of quantities, tangents and normals, important points to remember, increasing and decreasing functions, maxima and minima, derivative tests, Rolle's theorem, approximation and more.

Methods of differentiationMethods, implicit functions, substitution method, log and parametric functions

FAQsRolle's Theorem and Lagrange's mean Value Theorem

What is Rolle's theorem? Memory tip points to remember, Lagrange's Mean Value Theorem, their applications, FAQs.

Logarithmic functionsThe logarithm is the mathematical operator which will help us to exactly calculate the exponent which will satisfy the exponential equation.

Integral CalculusIntegral calculus can be described as the opposite of differential calculus. It is used in problems like determining the area of the region bounded by the graph and functions.

Indefinite IntegralsIf an integral does not possess an upper or lower limit, it is said to be an indefinite integral.

Definite IntegralsProperties of definite integrals, and methods of solving, sample problems, FAQs and more.

Application of IntegralsIn general, integration indicates the summation of discrete data. It is used to find the area, volume, displacement, that occurs due to the collection of data that cannot be measured singularly.

Polynomial Identities'poly' means many, 'nomial' means terms. Polynomial means 'many times'. A polynomial identity is a mathematical expression with more than one algebraic term each consisting of variables and constants.

AlgebraWhat is Algebra? History, types, real-life usage, formulae, sample problems and more.

Algebraic EquationsHistory of algebraic equations, definition and explanation, types of algebraic equations, sample questions, FAQs, exams etc.

AveragesKey concepts of average, and various types of questions based on it, solved sample problems and questions, tips and tricks and FAQs.

Comparison of QuantityKey concepts of comparison of quality, various types of questions based on it, solved sample problems, tips to solve and FAQs.

Data InterpretationData interpretation means understanding, organising, and interpretation of the given data.

Data SufficiencyData sufficiency reasoning consists of a question followed by statements that provide clues to the solution of the question. The aim is to determine if the statements given are sufficient to reach the solution.

Elementary StatisticsStatistics is defined as the art and science of gathering, analysing, and making inferences from data.

Height and DistanceConcepts of Trigonometry, height and distance, types of questions, tips and tricks to solve.

InterestInterest is the fee you pay when you borrow money. Simple interest and compound interest are the most popular forms of interest.

Mensuration 2DKey concepts of Mensuration 2D, along with various types of questions, the tips and tricks and solved sample problems.

Mensuration 3DMensuration 3D contains volume and surface areas of 3-dimensional figures such as cube, cuboid etc.

Mixture and AlligationA mixture refers to the mix that is derived as a result of mixing two or more items or substances in a certain ratio and proportion.

Alligation is a rule that helps us solve the problems related to mixtures.

Number SeriesNumber series is the sequence or pattern of numbers following some sequence or pattern. The objective is to find the wrong or missing number in the given series.

PartnershipPartnership is based on three points - time, investment and profit. Its relationship, types of questions, tips to solve etc.

PercentagesMeaning of "percentage" and related concepts, various types of questions and tips and tricks to solve them. Sample problems with solutions.

Pipe and CisternKey concepts of pipe and cistern questions along with various types of questions and tips and tricks.

Problems on AgesKey concepts, tips and tricks, various types of questions, solved examples and FAQs.

Profit and LossBasics of profit and loss, important terms and definitions, tips and tricks for solving efficiently, solved sample questions, FAQs.

Ratio and ProportionWhat is ratio and proportion? types of questions in ratio and proportion, tips and tricks for quickly solving questions, solved examples etc.

Simplification and ApproximationSolving expressions using basic rules of simplification. Solved examples for practice and doubts.

Speed, Time and DistanceConcepts related to speed, time and distance, types of questions, tips and tricks for efficient solutions, solved examples.

Time and WorkConcept, Negative Work, Work Equivalence, Efficiency, Types of questions, solved examples, how to solve and preparation strategies.

Algebraic IdentitiesTypes of algebraic identities, tips to solve questions, history of algebraic identities, sample questions etc.

Linear Equations In One VariableRules and concepts associated with linear equations in one variable. Steps and rules for solving, examples etc.

Linear Equations In Two VariablesBasic concepts of linear equations in two variables, methods to solve linear equations in two variables, practice questions etc.

Quadratic EquationQuadratic equation in one variable, nature of the roots, solved examples and practise sums.

Find Roots Of Quadratic EquationThe roots of quadratic equations, the nature of roots, finding roots of quadratic equations by factorisation method. The Sridharyacharya Formula

Factoring Quadratic EquationsWhat are quadratic equations, step-by-step factoring, example problems and practice questions.

Average FormulaDefinition, properties of Average, easy method for calculation, tips and tricks of Average etc.

Pie ChartDefinition, history of pie chart, uses, advantages, disadvantages, FAQs and more.

Pie DiagramBasics of a pie diagram. Types of pie diagram, how to create a pie chart, FAQs and more.

Linear MeasurementLinear measurement is the measurement of distance between two points. Learn about tools, units, methods and more.

Testbook aims to cover all topics in the general syllabus as well other topics required for examinations for technical posts. Here is a list of the topics which are commonly found in the Quantitative Aptitude section of Maths for Competitive Exams.

PercentageDecimalsFactors and MultiplesRatiosGeometryIntegersNumber SystemSimplificationHCF and LCMRatio and ProportionProblems on AgePartnershipBODMASAverageProfit and LossSimple Interest and Compound InterestMensurationTime and WorkTime and DistanceSquare RootTrigonometryApproximationMixture and AlligationPermutation and CombinationBoats and StreamsSurds and IndicesPipes and CisternsPractice Questions:

A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours. Will it be the true time when the clock indicates 1 p.m. on the following day?A) 48 min. past 12.B) 36 min. past 12.C) 33 min. past 12.D) 58 min. past 12.

The ratio of two numbers is 3 : 4 and their H.C.F is 4. Their L.C.M is The sum of the squares of two natural consecutive odd numbers is 394. The sum of the numbers is -A can do a piece of work in 24 days, B in 32 days and C in 64 days. All begin to do it together, but A leaves after 6 days and B leaves 6 days before the completion of the work. How many days did the work last?Sally is 54 years old and her mother is 80, how many years ago was Sally's mother times her age? Preparation Tips for Maths for Competitive Exams: Any exam can only be cracked with a perfect combination of the right knowledge and the right strategy. Here are a few tips and tricks to achieve the expertise in Maths for Competitive Exams: Divide up days for each chapter in a pre-planned study calendar and stick to it. Make sure you set realistic goals in your planner. Begin your studies each day by revising the notes from what you studied the day before that. After that pick a revision topic from the past. Only after this, delve into new topics to prepare. Give sufficient time every day to practice questions of every topic that you studied that day. Once done with the syllabus, give time to solve sample problems and previous year questions. Study from many different books to get variety in the kind of questions you practice. Always solve test series as well to get an experience of what the examination will be like.

Mathematics for Competitive Exam FAQs

Ans.1 Articles on all the topics necessary for competitive exams such as Average, Profit and Loss, Simple Interest and Compound Interest, Mensuration, Time and Work and more are available for download.

Ans.2 Yes, these articles about Mathematics are available for download from the links provided.

Ans.3 Yes you do. We often are able to solve problems but miss out on their variations and conceptual frameworks. To be able to solve any maths problem, candidates must refer to these articles. They will help in the solidification of these concepts in memory.

Ans.4 These articles aim to improve a candidate's understanding and skills of Mathematics problems and conceptual framework. The competitive examinations often have questions on these aspects.

Ans.5 Many competitive examinations have a Mathematics section, especially in the technical fields. It is important to refine your skills for Mathematics so that you do not miss out on opportunities.

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Math Paper for All Competitive Exams (SSC, HSSC, Railways, IBPS (Banking Sector) Math (Quantitative Aptitude) is an integral part of all the major Competitive Exams in the country. You can't escape it. So it is in the fitness of the thing that you must be ready for it. Maths is a skilled subject and most of it relies upon consistent practice. We are making earnest endeavor to publish Maths Paper that shall be very helpful for all the Competitive Exams such as IBPS PO/ Clerk, SSC CGL/ CHSL, Railways, LIC, GIC etc. So Check your Practice of Mathematics (Quantitative Aptitude) from below.

Math Paper for all Exams - Q.1 What is the least no by which 825 must be multiplied in order to produce a multiple of 715 ? a.13 b. 17 c. 11 d. 16 Q. 2. Find the greatest no of 4 digits and the least no of 5 digits that have 144 as their HCF ? a.10,000 b. 10,080 c. 11,080 d. 9,998 Q. 3. In how many words can be the letters of the word INTERMEDIATE be arranged ? a. 19999 b. 199599 c. 19958400 d.19945800 Q. 4. A and B enters into a partnership with capitals as 5:6, and at the end of 8 months, A withdraws. If they receive profits in the ratio of 5:9, find how long B's Capital was used ? a. 10 Months b. 11 Months c. 9 Months d. 12 Months

Quantitative Aptitude Test for SSC/ IBPS Exams Q. 5. 40 liters of a mixture of milk and water contain 10% of water. How much water must be added to make the water 20% in the new mixture ? a. 4 liters b. 6 liters c. 5 liters d.7 liters Q. 6. The age of a man is 4 times that of his son. 5 years ago, the man was 9 times as old as his son was at that time. What is the present age of the man ? a. 32 yrs b. 34 yrs c. 36 yrs d.30 yrs Q. 7. Joseph purchased a horse at 9/10 of its selling price and sold it at 8% more than its selling price. Find his gain per cent ? a. 10% b. 15 % c. 20% d.24% Q. 8. There would be 10% loss if rice is sold at Rs. 5.40 per kg. At what price per kg should it be sold to earn a profit of 20% ? a.6.2 per kg b. 7.2 per kg c. 10.8 per kg d.9.2 per kg Q. 9. A horse worth Rs 9000 is sold by A to B at 10% loss. B sells the horse back to A at 10% gain. Who gains ? a. a - 10% b. b - 10% c. a - 5% d. b - 5% Maths Practice Papers Q. 10 A man sells an article at 5% profit. If he had bought it at 5% less and sold it for Re. 1 less, he would have gained 10%. Find the cost price ? a. Rs 200 b. R. 100 c. Rs. 150 d. Rs 250 Which of the following does not fit in the series ? (from Questions 11 to 15) Q. 11. 7, 10, 12, 14, 17, 19, 22, 22 a. 10 b. 17 c. 19 d. 22 Q. 12. 2185,727, 241, 79, 30, 7, 1 a. 2185 b. 241 c. 30 d. 1 Q. 13. 2, 1, 10, 19, 14, 7, 16 a.2 b. 1 c. 10 d. 19 Q. 14 1, 1, 1, 4, 2, 1, 9, 5, 1, 16 a.14 b. 1 c. 2 d. 5 Q. 15 -1, 5, 20, 59, 119, 209, 335 a. 20 b. 119 c. 209 d. 335

Ans - 1. a 2. b 3.c 4. d 5. c 6. a. 7. c 8.b 9. b 10. a 11. c 12. c 13. d 14 d 15. a

Practice Maths Set - 1 for all Exams Maths Paper Set - 2 Practice Set on LCM and HCF Time and Work Chapter Practice paper on Profit and Loss Important Papers for Upcoming Exams - Practice English Papers from here.

Reasoning Mock Paper Test your General Knowledge from this Paper

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